BR135/D REV 14

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Applications and Product Literature

Selector Guide and Device Cross Reference

Including: Ordering Information

Full Alphanumeric Index

Product/Literature Cross Reference

Selector Guide by Product and Application

with Cross Reference to Motorola's Books, Brochures, Technical Bulletins and Selector Guides

Effective Date 3rd Quarter 1994

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Applications and Product Literature

Selector Guide and Device Cross Reference

families across a broad range of practical applications. Many different topics are discussed – in a way that is not possible in a device data sheet – from detailed circuit designs complete with PCB layouts, through matters to consider when embarking on a design, to complete overviews of a microprocessor family and its design philosophy.

Information is presented in the form of Application Notes and Article Reprints (originally published in the electronics press), plus detailed Engineering Bulletins, Benchbriefs², Design Concepts, APRs³. This guide to the Applications Literature includes a *Selector Guide* listing all the documents under subject or device-type headings, and a *Device Cross Reference* listing by featured devices.

Each section of this *Applications Literature Selector Guide* also includes cross references to a selection from Motorola's extensive range of Data Books, Brochures, Technical Bulletins and Selector Guides, which may provide further relevant information.

Information in this document is given in good faith and no liability is accepted for errors or omissions. Includes literature available as of March 1, 1994.

Historical Information

The various Application Notes, Article Reprints, Engineering Bulletins and Design Concepts were developed at Design Centers strategically placed throughout the global community, and many were written originally to support a local need. While the basic concepts of each of the publications have broad applications, specific Motorola parts may be referenced that are currently available for limited distribution in a selected region and are only currently supported by the country of origin of the Application Notes, Article Reprints, Engineering Bulletins and Design Concepts.

Also contained in this catalog, for completeness and historical significance, are Application Notes, Article Reprints, Engineering Bulletins and Design Concepts that are no longer available as individual documents because obsolete devices are referenced. These are marked with the letters "HI" to indicate that these documents are for *Historical Information* only.

All the Application Notes, Article Reprints, Engineering Bulletins and Design Concepts are included to enhance the user's knowledge and understanding of Motorola's products. However, before attempting to design-in a device referenced in these documents, contact the local Motorola supplier for product availability and available application support.

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² A Benchbrief is an Engineering Bulletin produced by Motorola's Asia-Pacific Group.

³ APRs are applications documents relating specifically to Digital Signal Processing.

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DSP56000UM/AD	6.00	5.30	4.85	3		
DSP56004UM/AD	4.70	4.20	3.85	2		
DSP56166UM/AD	3.70	3.30	3.05	2	9 9	
DSP96002UM/AD	6.00	5.30	4.85	3	9	eni urene
GPTRM/AD	1.70	0.60	0.55	1		GENERAL
HB205/D	2.70	2.40	2.20	2	0.000	HAARI LITE
HB214/D	2.00	1.60	1.35	1		
H4CDM/D	4.40	3.90	3.60	1		NAME OF THE OWNER, OWNE
HCA62A00DM/D	2.00			2		
HDCDM/D	3.35	3.00	2.50	3		Jagara.
LONUG/AD	6.00	5.30	4.85	2		RAMED OF
M6805UM/AD3	2.70	2.40	2.20	2	10 10 10	
M6809PM/AD	3.75	3.35	3.10	2		G Saturday.
M68000FR/AD	5.40	4.80	4.40	2		
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MC68040DH/AD	13.75	12.25	11.20	3		Color.
MC68302UM/AD	3.40	3.00	2.75	2		0.84)
MC68330UM/AD	1.40	1.25	1.15	2		G(Ba);
MC68331UM/AD	2.85	2.50	2.30	2		CUI.
MC68332UM/AD	2.05	1.80	1.65	2		Oval
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MC68488UM/AD	6.80	6.05	5.55	1		Enui.
MC68605UM/AD	2.10	1.90	1.70	2		Q8at.
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MC68824UM/AD	2.15	1.95	1.75	1 1		2000
MC68836UM/AD	1.00	45.8F (4	60 8r	88.1		disch-
MC68837UM/AD	2.00	ASSET I	See 8 7	28.1		CHESS.
MC68838UM/AD	3.75	3.30	3.00	1 1		7/015
MC68851UM/AD	8.15	7.25	6.65	2		e dire
MC68881UM/AD	4.00	3.70	3.40	2		GATA
MC68EC030UM/AD	1.95	1.75	1.60	2		CALL
MC68HC05CxRG/AD	0.75	原度 1	20.01	1		Chi le
MC68HC11A8RG/AD	0.40	883	08.8	1 1		DANAL SKIEDS II
MC68HC11D3RG/AD	0.40	25.2	DS A . I	1		BAMDING SHIP
MC68HC11E9RG/AD	0.40	Bas 1	06.6 1	01.1		GARRED LEFT
MC68HC11F1RG/AD	0.75	0.65	0.60	50.1		a Callegae S
MC68HC11K4RG/AD	0.75	68.0	08.0	8.1		GASALTS
MC68HC11KA4RG/AD	0.75	65.8	22	0.1		0,308
MC68HC11L6RG/AD	0.30	100	00.0	001		Gife (SI
MC68HC16Z1UM/AD	2.40	2.10	1.95	1		ELECTION .
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MC88100UM/AD	4.85	4.30	3.95	1 1		-092008
MC88110UM/AD	2.85	2.50	2.30	1		C. Sur
MC88110/410DH/AD	2.85	2.50	2.30	05.1		SELECTION OF ONE
MC88200UM/AD	4.85	4.30	3.95	1		
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Device Cross Reference

Device Cross Reference

This quick-reference list indicates where specific components are featured in Application Notes, Article Reprints, Engineering Bulletins and Design Concepts.

0AC5 AN801/D	2N5460 AN211A/D	DEVB103 AN1300/D
0AC5A AN801/D	2N5596 AN1033/D	AN1311/D
0DC5 AN801/D	2N6236 EB30/D	DEVB114 AN1305/D
1AC5 AN801/D	2N6237 EB30/D	DEVB118 AN1301/D
1AC5A AN801/D	2N6238 EB30/D	DEVB129 AN1304/D
1DC5 AN801/D	2N6239 EB30/D	DEVB147 AN1309/D
1N746 AN784/D	2N6240 EB30/D	DEVB156 AN1321/D
1N957A AN784/D	2N6241	DS14500A AN802/D
1N4001 EB51/D	2N6329 EB30/D	DS14500B AN802/D
1N4371 AN784/D	2N6439 EB77/D	DS14500C AN802/D
1N4569A AN462/D	2SA1302 AN1308/D	DSP56ADC16 APR8/D
1N4728 AN784/D	2SA1306B AN1308/D	APR10/D
1N4937 AR131/D	2SC3281 AN1308/D	DSP56000 ANE408/D
EB407/D	2SC3298B AN1308/D	
1N5221A AN784/D	4N25 AN1108/D	
1N5283 thru 1N5314 AN462/D	AM26LS31 AN781A/D	
1N5333A AN784/D	AM26LS32 AN781A/D	APR5/D
1N6267 AN784/D	BUL44 ARE402/D	APR11/D
2N3797 AN211A/D	EB407/D	APR12/D
2N4220 AN211A/D	BUL45 AN1049/D	APR14/D
2N4220A AN211A/D		
2N4221 AN211A/D	EB407/D	APR401/D
2N4221A AN211A/D	BUL146 EB407/D	DSP56001 ANE408/D
2N4222 AN211A/D	BUL147 EB407/D	APR1/D
2N4222A AN211A/D	BUL148 EB407/D	
2N4351 AN211A/D	CA2200 AN1027/D	
2N4851 AN294/D	CA2600 AN1027/D	
2N4852 AN294/D	CA2820 AN1022/D	APR6/D
2N4853 AN294/D	CA2870 AN1022/D	
2N5060	CPU05 AN1218/D	APR9/D
2N5061 EB30/D	CPU08 AN1218/D	APR11/D
EB126/D	CPU32 AN455/D	
2N5062 EB30/D	CR2424 AN1021/D	APR14/D
2N5063 EB30/D	AN1306/D	
2N5064 EB30/D		
2N5361 AN462/D	CR2425 AN1021/D	APR402/D
2N5401 AN1076/D	CR3424 AN1103/D	DC407/D
2N5458 AN211A/D	CR3434 AN1103/D	DCE406/D
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DSP56156 APR404/D	M6805 continued	MC68B50 AN905/D
DSP96002 APR4/D	EB400/D	MC68EC030 AN1127/D
APR10/D		MC68HC000 AN1123/D
H4C AN1094/D	M68300 AN1057/D	MC68HC04 ANE422/D
AN1500/D	AN1200/D	MC68HC04J2 ANE422/D
AR512/D	AN1213/D	MC68HC04P4 ANE422/D
H4CPlus AN1514/D	TPUPN00/D	MC68HC05 AN448/D
	M68332 AN1200/D	AN1067/D
HC05 AN1218/D	M88000 AN449/D	AN1203/D
HC08 AN1218/D	AN1129/D	
HDC006 AN1095/D	M146805 AN885/D	AN1212/D
HDC031 AN1095/D	MBR2045CT AR340/D	AN1218/D
HDC064 AN1094/D		AN1318/D
HDC100 AR306/D	MBR2535CTL AN1108/D	DC410/D
AR307/D	AR340/D	MC68HC05B ANE416/D
AR309/D	MBR20035CT EB85A/D	MC68HC05B4 AN431/D
HDC105 AN1094/D	EB85A/D	ANE416/D
LM324 EB85A/D	MBR030 AN1300/D	ANE418/D
LM324N AN1105/D	MBR040 AN1108/D	MC68HC05B6 AN434/D
LM358 EB85A/D	MBRS330T3 AN1317/D	AN1097/D
LM2902 EB85A/D	MC10E111 AN1405/D	AN1120/D
LM3914 AN1309/D	AN1406/D	ANE418/D
	AR519/D	ANE420/D
LT1123 AR514/D	MC10E211 AN1405/D	MC68HC05C4 AN991/D
	AN1406/D	AN1011/D
M68FDDIADS EB406/D	MC10EL11 AN1406/D	AN1067/D
M68HC05 AN431/D	MC10H124 AN1092/D	ANE413/D
AN436/D	MC10H60x AN1402/D	MC68HC05C5 AN1066/D
AN442/D		MC68HC05E0 AN441/D
AN1057/D	MC10H600 AN1402/D	AN460/D
AN1120/D	MC10H601 AN1402/D	MC68HC05J1 AN1067/D
AN1203/D	MC10H602 AN1402/D	MC68HC05L6 AN442/D
AN1218/D	MC10H603 AN1402/D	MC68HC05SC11 EB401/D
M68HC05E0 AN459/D	MC10H604 AN1402/D	EB402/D
M68HC08 AN1219/D	MC10H605 AN1402/D	EB404/D
AN1221/D	MC10H606 AN1402/D	MC68HC05SC21 AN436/D
M68HC11 AN427/D	MC10H607 AN1402/D	EB401/D
AN432/D	MC10H640 AN1400/D	EB401/D
AN456/D	AR519/D	EB402/D
AN1057/D	MC10H641 AN1400/D	EB404/D
AN1058/D	AN1405/D	EB405/D MC68HC05SC21B EB403/D
AN1060/D	AN1406/D	
AN1064/D	MC10H642 AN1400/D	MC68HC05SC23 EB404/D
AN1102/D	AN1406/D	MC68HC05SC2x EB404/D
AN1122/D	MC10H643 AN1400/D	MC68HC05SC3x EB404/D
AN122/D	AN1406/D	MC68HC05SC3y EB404/D
	MC10H644 AN1400/D	MC68HC05T1 AN433/D
AN1213/D		EB408/D
M68HC11EVS AN1215/D	AN1406/D	MC68HC05T2 EB408/D
M68HC16 AN1213/D	MC10H645 AN1400/D	MC68HC05T7 AN448/D
TPUPN00/D	AN1406/D	MC68HC11 AN458/D
M6800 AN1064/D	MC10H646 AN1400/D	AN974/D
M6805 AN442/D	AN1406/D	AN997/D
AN448/D	MC10H64x AN1401/D	AN1010/D
ANIOOFID	MC10H660 AN1092/D	AN1060/D
AN885/D	11101011000 /111002/D	
AN885/D	MC68B09E AN905/D	AN1102/D

MC68HC11 continued	MC74F258 AN1127/D	MC1733 EB79/D
	MC74F374 AN1125/D	MC1741
AN1300/D		MC2681
AN1309/D	MC74F646 AN1125/D	
AN1311/D	MC74F803 AR519/D	MC2831A AN-HK-02/H
ANI4349/D	MC74HC00 ANE404/D	MC3362 AN980/D
AN1318/D	MC74HC04 AN1102/D	MC3363 AN980/D
AN1319/D	MC74HC14 AN1126/D	MC3373 AN1016/D
AN1324/D	MC74HC138 ANE404/D	AN1126/D
ANE405/D	MC74HC240 AN1102/D	AN1203/D
ANE415/D	MC74HC373 AN1102/D	MC3373P AN1126/D
DC410/D	MC74HC4024 AN1126/D	MC3403 EB85A/D
MC68HC11A8 AN1067/D		MC3423 AN004E/D
MC68HC11A8P1 AN1065/D	MC74HC4046A AN1410/D	
MC68HC11E9 AN456/D	MC74HCU04 AN1207/D	EB85A/D
	MC74LS04 AN1102/D	MC3424 AN004E/D
	MC74LS20 AN1127/D	
AN1311/D	MC74LS26 AN1102/D	MC3425 AN004E/D
MC68HC11G5 AN432/D	MC74LS240 AN1102/D	EB85A/D
MC68HC11K4 AN452/D	MC74LS373 AN1102/D	MC3438 EB85A/D
AN1215/D	MC74LS393 AN1127/D	MC3450 AN740/D
MC68HC11N4 AN1215/D	MC78L08 AN1322/D	MC3452 AN740/D
MC68HC16Z1 AN1061/D	MC78L08ACP AN1325/D	MC3459 AN740/D
AN1213/D	MC100E111 AN1405/D	MC3460 AN740/D
MC68HC24 AN1102/D		MC3486 AN781A/D
ANE415/D		MC3487 AN781A/D
MC68HC25 ANE404/D	AR519/D	MC3488 AN781A/D
MC68HC68T1 AN457/D	MC100E211 AN1405/D	MC3523 AN004E/D
	AN1406/D	MC3524 AN004E/D
AN1065/D	MC100EL11 AN1406/D	MC3525 AN004E/D
ANE425/D	MC100H60x AN1402/D	MC3870 EB404/D
MC68HC205V8 AN1224/D	MC100H640 AN1400/D	MC4007 AN740/D
MC68HC704P4 ANE421/D	MC100H641 AN1405/D	MC4007 AN740/D
MC68HC705B5 AN440/D	AN1406/D	MC4042 AN740/D
AN1305/D	MC100H646 AN1406/D	
MC68HC705C8 AN1067/D	MC100H64x AN1401/D	MC6200ETL AN1508/D
AN1212/D	MC100H660 AN1092/D	MC6800 AN732A/D
AN1226/D	MC109XX AR128/D	AN782/D
MC68HC705C8A AN1226/D	MC1330 AN545A/D	MC6801 AN797/D
MC68HC705T3 EB408/D	MC1350	AN807/D
MC68HC711E9 AN1060/D		AN1060/D
MC68HC711F1 AN1060/D	MC1352 AN545A/D	ANE404/D
	MC1374 AN829/D	MC6801U4 ANE404/D
MC68HC711K4 AN1060/D	MC1377 AN932/D	MC6803 AN797/D
MC68HC805B6 AN440/D	AN1044/D	MC6805 AN902/D
AN446/D	MC1378 AN1044/D	AN1218/D
ANE416/D	MC1408 EB51/D	EB404/D
ANE418/D	MC1458 EB79/D	MC6805L3 ANE405/D
MC68HC805C4 AN966/D	MC1466 AN703/D	MC6805L8 ANE405/D
ANE425/D	MC1488 AN781A/D	MC6805P2 BF8401/D
MC68HC805L6 ANE425/D	MC1489 AN781A/D	MC6805R2 AN910/D
MC68HC811A2 ANE415/D	MC1596 AN531/D	
MC68HC811E2 AN458/D	MC1648 AN1122/D	MC6805R2()1 AN869/D
MC74AC157 APR11/D		
		MC6805S2 AN901/D
MC74AC74 APR11/D	MC1658 AN1207/D	ANE405/D
MC74ACT245 APR11/D	MC1670 EB48/D	MC6805S3 ANE405/D
MC74AS280 AN1125/D	MC1723 AN004E/D	MC6805SC01 EB401/D
MC74F04 AN1102/D	AN703/D	EB402/D
MC74F244 AN1125/D	EB27A/D	MC6805SC03 EB401/D

ANBESID MC14594 EB48/D MC14599 ANT53/D AN1004/D AN598/D MC14599 EB51/D AN1004/D AN1007/D	MC6809 AN820/D	MC14522 EB48/D	MC34118 continued
MC6809E AN865/D MC14519 AN753/D AN1000/D			
MC6809E AN866/D AN666/D MC14559 EB51/D AN1003/D AN1003/D AN806/D AN806/D MC14556 AN738/D AN1003/D			
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MG821			MC34119 AN1003/D
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AR243/D	AN437/D	AN994RE/D
ARE001/D	AN1061/D	ANE009/D
MC68012 AR233/D	AN1062/D	AR213/D
AR243/D	AN1067/D	AR232/D
MC68020 AN451/D	AN1123/D	AR233/D
AN984/D	AN1310/D	AR519/D
AN994RE/D	MC68340 AN449/D	DCE402/D
AN1014/D		DCE403/D
AN1015/D		EB116/D
AN1310/D		MC68882 AN430/D
AR213/D		ANE009/D
AR217/D	AN1123/D	AR224/D
AR225/D	MC68451 AN880/D	AR244/D
	AN996/D	AR519/D
	ARE001/D	DCE402/D
	DC001/D	DCE403/D
AR233/D	MC68605 AN970/D	EB116/D
AR242/D	MC68606 AN1013/D	MC68901 AN896A/D
AR243/D	AN1014/D	AN975/D
AR259/D	MC68681 AN897/D	AN1015/D
AR268/D	AN1217/D	MC75176 AN1216/D
AR519/D	AN899/D	MC75491 AN753/D
DC003/D	AN941/D	MC75492 AN753/D
DC407/D	AN975/D	MC88000 AR519/D
DCE402/D	AN990/D	MC88100 AN447/D
DCE403/D		
EB116/D	ANE426/D	AN1125/D
EB406/D	DC402/D	AN1129/D
MC68030 AN430/D	MC68701 AN906A/D	ADE10/D
AN999/D	MC68701U4 AN906A/D	
ANE426/D		MC88110 AN1214/D
AR248/D	MC68704P2 AN942/D	ANH047/D
AR253/D	MC68705 AN885/D	
AR270/D	MC68705P3 AN857/D	EB162/D
AR519/D	AN940/D	FD400/D
DC407/D	AN993/D	EB163/D
DCE402/D	MC68705R3 AN857/D	EB165/D
DCE403/D	AN991/D	MC88200 AN447/D
EB116/D	MC68705U3 AN857/D	
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AN439/D	MC68824 AN1007/D	AN1129/D
AN444/D	AN1008/D	AR519/D
AR519/D	AR262/D	
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MC68230 AN854/D	MC68836 DC409/D	MC88914 AN1125/D
	MC68837 DC409/D	
AN996/D	MC68838 DC409/D	AR519/D MC88915 AN1214/D
	MC68839 DC409/D	
MC68302 AN457/D	MC68851 AN984/D	
		MC142100 AN893/D
	AN994RE/D	MC142100 AN893/D
MC68330 AN1123/D	AR232/D	MC142101 AN893/D
MC68330 AN1123/D		MC142101 AN893/D MC143120 AN1208/D
MC68331 AN1123/D	MC68881 AN947/D	MC143120 AN1208/D
WI000332 AN429/D	WO00001 AN947/D	AN1225/D

MC143150 AN1208/D	MC145419 continued	MCA2500ECL AN953/D
AN1211/D	1100000	MCA3200ETL AN1508/D
AN1216/D	AR239/D	MCA10000ECL AN977RE/D
AN1225/D	MC145421 AR239/D	AN1508/D
MC144110 AN1211/D	MC145422 AN943/D	MCC68HC05SC11 EB400/D
MC144111 AN1211/D	AN946/D	MCC68HC05SC21 EB400/D
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	AN949/D	MCCS142235 AN1408/D
	AN968/D	MCCS142237 AN1408/D
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MC145004 AN442/D	AN949/D	
MC145026 AN1126/D	A D000/D	MCM4180 AR270/D
AN-HK-02/H	AR239/D	MCM5003 AN550/D
BF8105/D	MC145428 AN946/D	MCM5004 AN550/D
MC145027 AN1126/D	AN948/D	MCM6164 ANE426/D
BF8105/D	AN949/D	MCM6268 AN984/D
MC145028 AN1126/D	AN968/D	MCM6287 AR241/D
AN-HK-02/H	AR239/D	DCE402/D
MC145030 AN1126/D	MC145429 AN1054/D	MCM6288 AR241/D
AR255/D	MC145440 AN891/D	MCM6290-25 DCE402/D
MC145033 AN1126/D	AN-HK-01/H	MCM6292 AR256/D
MC145034 AN1126/D	MC145441 AN-HK-01/H	AR258/D
MC145035 AN1126/D	MC145445 AN-HK-01/H	AR260/D
MC145040 AN1061/D	MC145453 AR266/D	MCM6293 AR256/D
MC145040 AN1061/D	MC145474 AN445/D	AR258/D
	AN1054/D	AR260/D
MC145041 AN1061/D	MC145475 AN445/D	MCM6294 AR256/D
AN1062/D	MC145484 AR239/D	AR258/D
MC145050 AN1061/D	MC145488 AN1054/D	AR260/D
AN1062/D		MCM6295 AR256/D
MC145051 AN1061/D	MC145490EVK AN1054/D	AR258/D
AN1062/D	MC145503 APR12/D	AR260/D
EB155/D	MC145554 AN1054/D	MCM6605 AN740/D
MC145053 EB155/D	MC146805 AN1218/D	MCM6605A AN732A/D
MC145100 BF8501/D	MC146805E2 ANE404/D	MCM6664 AN838/D
MC145157 ANE416/D	MC146805F2()1 AN863/D	MCM6665 AN896A/D
MC145159 AN969/D	MC146805F2L1 AN888/D	MCM6665L15 AN897/D
MC145160 AN-HK-02/H	MC146805G2 AN404/D	MCM10143 AN730A/D
MC145170 AN1207/D	AN852/D	MCM62110 AN1217/D
MC145326 AN946/D	AN1011/D	MCM62350 AR270/D
MC145406 AN946/D	ANE413/D	MCM62351 AR270/D
AN968/D	MC146805G2L1 AN852/D	MCM62486 AN1223/D
AR239/D	MC146818 AN864A/D	MCM62940 AN1127/D
MC145407 AN451/D	AN894A/D	MCM67518 AN1223/D
AN1065/D	ANE404/D	MCM67518 AN1223/D
MC145412 AN1002/D	MC146823 AN864A/D	MCM67B518 AN1223/D
AN1002/D		
AN1003/D	MC688836 DC409/D	MCM67B618 AN1223/D
AN-HK-02/H	MC688837 DC409/D	MCM81000 AN1217/D
MC145418 AN945/D		MCM84000 AN1217/D
	MC688838 DC409/D	MCM84256 AN1217/D
AR239/D	MC688839 DC409/D	MCM91000 AN1125/D
MC145419 AN945/D	MCA750ETL AN1508/D	MCM511001 AN999/D
AN946/D	MCA2200ETL AN1508/D	MCM514256 APR11/D

MCM514256A APR11/D	MJH16110 EB85A/D	MPX200 AN919/D
MCM514258A AN1127/D	MJW18010 AN1320/D	AN935/D
MCM514400 AN1063/D	MK1V270 AR450/D	MPX201 AN919/D
MCM518128 AN1059/D	MKP9V240 AR450/D	MPX700 AN1105/D
MCP2004 AN956/D	MLED71 AN1120/D	MPX2000 AN1097/D
MCP2005 AN956/D	MLED81 AN1016/D	AN1309/D
MCP2006 AN956/D	AN1203/D	AN1312/D
MCP2011 AN956/D	MMDF2C05E AN1321/D	AN1313/D
MCP2012 AN956/D	MOC2A40 EB200/D	AN1315/D
MCP2014 AN956/D	MOC2A60 EB200/D	AN1318/D
MCP2015 AN956/D	MOC3031 AN916/D	AN1322/D
MCR69 AR450/D	MOC3041 AN916/D	AN1324/D
MCR1000 AR450/D		AN1325/D
MCS3201 AN1123/D	MOC8100 AN1108/D	MPX2010 AN1312/D
MDC1000A AN1101/D	MOC8101 AN1108/D	AN1313/D
AR341/D	AN1325/D	AN 1313/D
EB142/D	MOC8102 AN1078/D	AN1318/Ď
MDC1000B EB142/D	AN1080/D	AN1324/D
MDC1000C EB142/D	AN1101/D	MPX2050 AN1312/D
MDC4010A AN1322/D	AN1108/D	AN1313/D
MDC4510A AN1322/D	AR341/D	AN1315/D
MFE2012 AN211A/D	EB126/D	AN1324/D
MFE4007 AN211A/D	MOC8104 AN1108/D	MPX2100 AN1082/D
MFOD71 ANE007/D	MPC1500 AR138/D	
MFOE71 ANE007/D	MPF102JFET AN211A/D	ANTOTO/D
MGP20N50 AN934/D	MPM3002 AN1078/D	
MGTO1400 AR159/D	AN1213/D	AN1318/D
MHW607 AN1107/D	AN1300/D	AN1322/D
MHW612 EB107/D	AN1301/D	AN1324/D
MHW613 EB107/D	EB123/D	MPX2200 AN1100/D
MHW709 EB107/D	EB128/D	AN1312/D
MHW710 EB107/D	MPM3003 AN1046/D	AN1313/D
MHW720 EB107/D	MPM3004 AN1120/D	AN1315/D
MHW801 AN1106/D	MPM3017 AN1319/D	AN1318/D
MHW808 EB107/D	MPN3401 AN753/D	
MHW820 EB107/D		AN1324/D
	MPN3402 AN753/D	MPX2700 AN1312/D
MHW851 AN1106/D	MPS650 AN1308/D	AN1313/D
MHW612 EB107/D	MPS750 AN1308/D	AN1315/D
MHW5122A AN1107/D	MPS6519 EB48/D	AN1324/D
MHW5185 AN1107/D	MPS8099 AN1308/D	MPX5100 AN1304/D
MJ14003 AR450/D	MPS8599 AN1308/D	AN1305/D
MJ16004 AN952/D	MPSA56 AN1300/D	AN1307/D
MJ16008 AN952/D	MPSA06 AN1300/D	AN1318/D
MJ16012 AN952/D	MPSG1000 AN1076/D	AN1322/D
MJ16016 AN952/D	AN1078/D	AR502S/D
MJ16018 AN952/D	MPSW06 AN1300/D	MPX5100A AR502S/D
MJE200	AN1308/D	MPX5100D AR501S/D
MJE1123 AR514/D		
MJE16106	MPSW56 AN1308/D	AR502S/D
	MPU6805 AN989/D	MPX7000 AN1303/D
MJE18004 AN1080/D	MPX10 AN935/D	AN1318/D
MJF15030 AN1308/D	MPX11 AN935/D	MPX7100 AN1303/D
MJF15031 AN1308/D	MPX12 AN935/D	MR506 AN1325/D
MJH6085 AR511/D	MPX50 AN935/D	MR2520L AR450/D
MJH16006A AN951/D	MPX50D BF8401/D	MRD360 AN1016/D
MJH16106 EB85A/D	MPX100 AN935/D	MRD750 AN1120/D

MMRD821 AN1016/D	MTP4N50E AN1108/D	PCF8573 AN1066/D
AN1203/D	MTP4N90 AN1080/D	RS232C EB150/D
MRD3056 AN1016/D	MTP7N20 EB85A/D	RS422A EB150/D
MRF50 EB104/D	MTP8N50 EB85A/D	RS423A EB150/D
RF141G AN1041/D	MTP8N50E AN1108/D	RS485 EB150/D
MRF150 AR141/D	MTP10N10M AN976/D	SC371016 J1850 AN1212/D
MRF151G AN1041/D	AN1001/D	SG1525A EB85A/D
MRF153 AN1041/D	AR160/D	SG1526 EB85A/D
AR176/D	MTP10N25 EB85A/D	SN75172 AN781A/D
MRF154 AN1041/D	EB141/D	SN75173 AN781A/D
MRF155 AN1041/D	MTP12N10 AN1042/D	SN75174 AN781A/D
MRF175G AN1041/D	AR157/D	SN75175 AN781A/D
MRF176G AN1041/D	MTP12N20 EB85A/D	SN75176 EB150/D
MRF227 EB29/D	MTP12P10 AN1042/D	TCAP2 AN1120/D
MRF237 AN955/D	MTP15N05 AR164/D	TDA3301 AN1044/D
MRF260 EB90/D	MTP40N06M AN1078/D	TDA3330 AN1019/D
EB93/D	MTP3055 AN1102/D	TDA4601 ANE402/D
MRF262 EB90/D	MTP3055E AN1102/D	TL431 AN1108/D
EB93/D	EB126/D	EB85A/D
MRF264 EB93/D	MTP3055EL AN1076/D	TL431CLP AN1108/D
MRF422 EB27A/D	AN1102/D	TL494 EB85A/D
MRF430 AN1041/D	MTS102 BF8401/D	TP1940 AN438/D
MRF553 AN938/D	MTW7N80E AN1325/D	TP3400 AN1038/D
MRF607 EB29/D	MTW23N25E AN1101/D	TP9383 AN438/D
MRF630 EB109/D	AR341/D	AN1037/D
MRF650 AN1107/D	MUR105 AR131/D	TPV375 AN1028/D
MRF966 AN925/D	MUR150 EB407/D	TPV593 AN1039/D
MRF1946A AN955/D	MUR405 AR131/D	TPV596 AN1029/D
MRF2001 EB89/D	MUR450 EB407/D	TPV597 AN1030/D
MS16 AN801/D	MUR804PT EB85A/D	TZA120 AN1082/D
MTB23P06E AN1317/D	MUR3015PT EB85A/D	UAA1041 AN428/D
MTB36N06E AN1317/D	MUR3040PT EB85A/D	UC3842A AN1080/D
MTD10N05E AR323/D	MUR8100 AN952/D	ANE424/D
MTH5N100 AR326/D	MUR10010CT EB85A/D	UC3843 EB126/D
MTH7N50 EB85A/D	MUR10015CT EB85A/D	UC3843A AN1080/D
MTH13N50 EB85A/D	MUR20010CT EB85A/D	UC3844 AN1108/D
MTH15N20 EB85A/D	MURH840 AN1325/D	UC3844AN AN1108/D
MTM15N40 AR157/D	MV2115 AN1207/D	UC3845 AN1108/D
MTP2N50 AN1090/D	P6KE30 AR450/D	μA78S40 AN920/D
MTP4N50 AN929/D	PAL16R4-7 APR11/D	V39MA2A AR450/D
EB85A/D	PAL22V10 APR11/D	ZC94304 ANE422/D

Applications and Product Literature Selector Guide



Applications and Product Literature Selector Guide

A/D and D/A Conversion

*AN559/D	A Single Ramp Analog-to-Digital Converter
AN587/D	Analysis and Design of the Op Amp Current Source
*AN713/D	Binary D/A Converters Can Provide BCD-Coded Conversion
AN869/D	Application Summary for the MC6805R2()1 Single-Chip Microcomputer with A/D Converter
*AN877/D	Precision Voltage References for the MC10315/MC10317 Flash A-D Converters
AN900/D	Using the M6805 Family On-Chip 8-bit A/D Converter
AN1058/D	Reducing A/D Errors in Microcontroller Applications
AN1062/D	Using the QSPI for Analog Data Acquisition
AN1207/D	The MC145170 in Basic HF and VHF Oscillators
AN1211/D	Interfacing DACs and ADCs to the NEURON IC
AN1216/D	Setback Thermostat Design Using the Neuron IC
EB51/D	Successive Approximation BCD A/D Converter
EB155/D	Analog to Digital Conversion with the Neuron Chip

Additional information relevant to A/D and D/A Conversion may be found in the following Motorola documents:

ADCRM/AD	Analog-to-Digital Converter Reference Manual
BR1418/D	Military Analog, Telecom and Special Functions Fact Sheet
DL412/D	Industrial Control Applications Manual
SG96/D	Linear and Interface Integrated Circuits Selector Guide & Cross Reference
SG117/D	Data Conversion Products
SG169/D	MOS Digital-Analog Integrated Circuits
SGE102R1/D	CMOS System IC Selection Guide

ASICs (Application Specific ICs)

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AN953/D	Binary Addition/Subtraction and Binary/BCD Addition Utilizing Motorola's MCA2500 ECL Macrocell Array
AN977/D	Third Generation ECL Macrocell Arrays
AN981/D	Building Counters with Motorola's Macrocell Arrays
*AN989/D	ASIC MPU6805 Standard Cell Interrupt Handling
AN1093/D	Delay and Timing Methods for CMOS ASICs
AN1094/D	Thermally Enhanced Quad Flat Packages
AN1095/D	Clock Distribution Techniques for HDC Series Arrays
AN1096/D	Guidelines for Using the Mustang™ ATPG System
AN1099/D	Test Methodology and Release Issues for HDC Series Gate Arrays
AN1500/D	IEEE Std. 1149.1 Boundary Scan for H4C $^{\scriptscriptstyle \mathrm{TM}}$ Arrays
AN1502/D	Embedded RAM BIST
AN1508/D	High Frequency Design Techniques and Guidelines for Bipolar Gate Arrays
AN1509/D	ASIC Clock Distribution Using a Phase-Locked-Loop (PLL)
AN1514/D	H4CPlus™ Series 3.3 V/5 V Design Considerations
AR108/D	Macrocell Arrays: An Alternative to Custom LSI
AR128/D	Array-Based Logic Boosts System Performance
AR306/D	Densest Gate Arrays Ever from LSI Logic, Motorola
AR307/D	Jumbo High-Density Gate Arrays Score a Round of Industry Firsts
AR308/D	Motorola's Arrays Hit a New High: 80% Gate Utilization
AR309/D	High-Density ASIC Family Achieves
	AN953/D AN977/D AN981/D *AN989/D AN1093/D AN1094/D AN1095/D AN1096/D AN1500/D AN1500/D AN1502/D AN1508/D AN1509/D AN1514/D AR108/D AR306/D AR307/D AR308/D

100k-Cell Arrays

ASICs (Application Specific ICs) continued

AR310/D	Software for Sea-of-Gates Arrays Places and Routes Over 70% of Available Gates
AR512/D	Gate Arrays Challenge Standard-Cell ASICs
AR520/D	Applications Specific MultiChip Modules
AR524/D	Pick the Right Package for Your Next ASIC Design

Desi	gii
Additional information may be found	tion relevant to ASICs (Application Specific ICs) d in the following Motorola documents:
BR165/D	MCA800ECL MCA2500ECL Macrocell Array Design Manual
BR334/D	ASIC Semicustom Circuits
BR449/D	Gate Arrays and Standard Cells
BR746/D	Cell Based Products – Questions and Answers
BR916/D	Packaging Manual for ASIC Arrays
BR1400/D	OACS (ASIC) – Open Architecture CAD System
BR1409/D	ECL300 Logic Array
BR1417/D	OACS 3.1M – New Generation Open Architecture CAD System
BRE302S/D	Motorola's High Performance Macrocell Arrays – the MCA2900ETL
BRE323/D	Your Complete Standard Cell Design Solution
BRE368R1/D	MPU6805 Evaluation Board
DL152/D	MDA15 CMOS Standard Cell Data
DL154/D	MDA08 CMOS Standard Cell Data
H4CDM/D	H4C Series Design Reference Guide
H4CPDM/D	H4CPlus Series Design Reference Guide
H4CPDMAD/D	Supplement to H4CPlus Design Reference Guide
HDCDM/D	HDC Series Design Reference Guide
MC92005UM/D	MC92005 SBus Slave Interface Controller User's Manual
MCA3ETLDM/D	MCA3ETL Series Design Manual
MCA10000DM/D	MCA10000ECL Macrocell Array: MCA3 Series Design Manual
SG138/D	Commercial Plus and Mil/Aero Application IC & Discrete Selector Guide
SG169/D	MOS Digital-Analog Integrated Circuits
SG367/D	Semicustom Circuits
SGE115/D	Motorola ASICs and CMOS Standard Cell Arrays
SGE116/D	Motorola ASICs and CMOS Macrocell Arrays

Audio Amplifiers

AN421/D	Semiconductor Noise Figure Considerations	
AN484A/D	Basic Design of Medium Power Audio Amplifiers (3 to 35 Watt)	
AN485/D	High-Power Audio Amplifiers with Short-Circuit Protection	
AN1042/D	High Fidelity Switching Audio Amplifiers	

Using TMOS Power MOSFETs

AN1081/D Minimize the "pop" in the MC34119 Low Power Audio Amplifier

AN1308/D 100 and 200 Watt High Fidelity Audio Amplifiers Utilizing a Wideband Low Feedback Design

Additional information relevant to Audio Amplifiers may be found in the following Motorola documents:

BR924/D	Military Analog Lineup
BR1413/D	Military 35102 Sleep-Mode Op Amp
BR1418/D	Military Analog, Telecom and Special Functions Fact Sheet
DL111/D	Bipolar Power Transistor Data
DL126/D	Small-Signal Transistors, FETs and Diodes Device Data
DL414/D	FET Applications Manual
SG96/D	Linear and Interface Integrated Circuits

Automotive Applications

	Circuit Detection Using the UAA1041
AN1067/D	Pulse Generation and Detection with Microcontroller Units
ANE007/D	Automotive Multiplex Wiring - An Example
AR267/D	Moto Answers Back
AR517/D	High Resolution Position Sensor for Motion Control System
EB126/D	Ultra-Rapid Nickel-Cadmium Battery Charger
EB409/D	The MI-BUS and Product Family for Multiplexing Systems

AN428/D Automotive Direction Indicator with Short

Additional information relevant to Automotive Applications may be found in the following Motorola documents:

BR470/D	Motorola Discretes – The Complete Solution
BR477/D	Smart Mover – Stepper Motors with Integrated Serial Bus Controller
BR934/D	Sensing Solutions from Motorola – Sensors for the Automotive Industry
BR1305/D	Linear Integrated Circuits: New Product Calendar
BRE427R1/D	Automotive Semiconductors
SG96/D	Linear and Interface Integrated Circuits Selector Guide & Cross Reference

Computer Systems

AN444/D	An MC68040-based Zero Wait State Evaluation System
AN451/D	An MC68340-based Input/Output Processor Design

	MECL and MTTL		Applications
AN730A/X	A High Speed FIFO Memory Using the MECL MCM10143 Register File	AN1213/D	16-bit DSP Servo Control with the MC68HC16Z1
*AN738/D *AN741/D	NBCD Sign and Magnitude Adder/Subtractor Interface Considerations for Numeric Display	ANE408/D	Logarithmic/Linear Conversion Routines for DSP56000/1
*AN742/D	Systems A 200 MHz Autoranging MECL – McMOS	APR1/D	Digital Sine-Wave Synthesis Using the DSP56001/DSP56002
*AN759/D	Frequency Counter A CMOS Keyboard Data Entry System for	APR2/D	Digital Stereo 10-Band Graphic Equalizer Using the DSP56001
AN770/D	Bus Oriented Memory Systems Data Acquisition Networks with NMOS and CMOS	APR3/D	Fractional and Integer Arithmetic Using the DSP56000 Family of General-Purpose Digital
*AN806A/D	Operation of the MC14469		Signal Processors
AN917/D	Reading and Writing in Floppy Disc Systems Using Motorola Integrated Circuits	APR4/D	Implementation of Fast Fourier Transforms on Motorola's Digital Signal Processors
AN994RE/D	0 32-bit Computer Design Using 68020/68881/68851	APR5/D	Implementation of PID Controllers on the Motorola DSP56000/DSP56001
AN1050/D AN1051/D	Designing for Electromagnetic Compatibility (EMC) with HCMOS Microcontrollers Transmission Line Effects in PCB	APR6/D	Convolutional Encoding and Viterbi Decoding Using the DSP56001 with a V.32 Modem Trellis Example
AN1061/D	Applications Reflecting on Transmission Line Effects	APR7/D	Implementing IIR/FIR Filters with Motorola's DSP56000/DSP56001
AN1091/D	Low Skew Clock Drivers and their System Design Considerations	APR8/D	Principles of Sigma-Delta Modulation for
AN1207/D	The MC145170 in Basic HF and VHF Oscillators	APR9/D	Analog-to-Digital Converters Full-Duplex 32-kbit/s CCITT ADPCM Speech
AN1405/D AN1406/D	ECL Clock Distribution Techniques Designing with PECL (ECL at +5.0V)	ADD40/D	Coding on the Motorola DSP56001
AN1408/D	Power Dissipation for Active SCSI Terminators	APR10/D	DSP96002 Interface Techniques and Examples
AN1504/D	Metastability and the ECLinPS™ Family	APR11/D	DSP56001 Interface Techniques and Examples
APR10/D	DSP96002 Interface Techniques and Examples	APR12/D	Twin CODEC Expansion Board for the
*AR261/D	Multiprocessors Boost System Power	Al IIIZ/D	DSP56000 Application Development System
*AR275/D	Opus Systems' 88000 Workstation	APR14/D	Conference Bridging in the Digital Telecomms Environment Using the Motorola DSP56000
	pnal Information relevant to Computer Systems the found in the following Motorola documents: Motorola Development Support Guide	APR15/D	Implementation of Adaptive Controllers on the Motorola DSP56000/DSP56001
BR724/D BR1305/D	88open Sourcebook, Edition 4 Linear Integrated Circuits: New Product	APR401/D	Twin CODEC Expansion Board for the DSP56000 Application Development System
BR1331/D	Calendar Introducing Motorola's ALExIS Bus	APR402/D	Low Cost Controller for DSP56001
BR1332/D	Interface Solutions Logic Integrated Circuits Division: New	APR404/D	G.722 Audio Processing on the DSP56100 Microprocessor Family
BR1333/D	Product Calendar Low Skew Clock Drivers and Programmable Delay Circuits	DC407/D	Interfacing MC68020 and MC68030 to DSP56001 Host Port
BR1409/D	ECL300 Logic Array	DCE406/D	Interface for MC68000 to DSP56001 Host Port
BRE147/D	Architectural Contrast: M68000 Family and the 8086/iAPX86		alifornia cour
BRE150/D	M68000 vs. iAPX86 Benchmark Performance	po mar d	Additional information relevant to DSP
DL155/D	Dynamic RAMs and Modules	BR282/D	be found in the following Motorola documents: DSP56000 Technical Summary – 56-bit
DL156/D	Fast Static RAM – BiCMOS, CMOS and Module Data	DRZ0Z/D	General Purpose Digital Signal Processor
SG169/D	MOS Digital-Analog Integrated Circuits	BR297/D	Dr. Bub - DSP Electronic Bulletin Board
SG366/D	TTL, ECL, CMOS and Special Logic Circuits Selector Guide	BR460/D	The European Blue Book, 1992 – Qualified Semiconductor Products

BR282/D	DSP56000 Technical Summary – 56-bit General Purpose Digital Signal Processor
BR297/D	Dr. Bub - DSP Electronic Bulletin Board
BR460/D	The European Blue Book, 1992 – Qualified

Digital Signal Prod	cessing (DSP) continued
BR517/D	DSP56000ADSx & DSP56KEMULTRCABL for DSP56000 Family Products
BR522/D	DSP320 to 56001 Software Summary
BR526/D	DSP56000CLASx Software Summary
BR541/D	DSP56KCCx DSP56000/DSP56001 C Cross Compiler – Software Summary
BR718/D	DSP56ADC16EVB Evaluation Board and Software
BR725/D	DSP96000CLASx Software Summary
BR749/D	DSP96000ADSx Application Development System
BR786/D	DSP56156ADSx Application Development System
BR911/D	Military Microprocessor Fact Sheet
BR912/D	The Military DSP56001 is Available Now
BR1105/D	DSP – Motorola's 16, 24 and 32-bit Digital Signal Processing Families
BR1402/D	Military DSP96002
DL411/D	Communications Applications Manual
DSP56KFAMUM/AD	DSP56000 Digital Signal Processor Family Manual
DSP56000UM/AD	DSP56000/DSP56001 Digital Signal Processor User's Manual
DSP56116UM/AD	DSP56116 Digital Signal Processor User's Manual
DSP96002UM/AD	DSP96002 IEEE Floating-Point Dual-Port Processor User's Manual
SG138/D	Commercial Plus and Mil/Aero Application IC & Discrete Selector Guide
SG146/D	Digital Signal Processors Update
SG416/D	Clock Driver Selector
TB324/D	Real Time Digital Signal Processing Applications with Motorola's DSP56000 Family (Mohamed El-Sharkawy, 1990)

FET	
AN211A/D	Field Effect Transistors in Theory and Practice
AN220/D	FETs in Chopper and Analog Switching Circuits
AN462/D	FET Current Regulators – Circuits and Diodes
*AN845/D	New Power Bipolars Compare Favourably with FETs for Switching Efficiency
AN860/D	Power MOSFETs versus Bipolar Transistors
AN913/D	Designing with TMOS Power MOSFETs
AN918/D	Paralleling Power MOSFETs in Switching Applications
AN929/D	Insuring Reliable Performance from Power MOSFETs
AN976/D	A New High Performance Current Mode Controller Teams Up with Current Sensing Power MOSFETs

	ANHOOOID	CENCEETS For High Fraguency
	AN1000/D	SENSEFETs For High Frequency Applications
	AN1001/D	Understanding SENSEFETs
	AN1043/D	Spice Model for TMOS Power MOSFETs
	AN1076/D	Speeding up Horizontal Outputs
	AN1090/D	Understanding and Predicting Power MOSFET Switching Behavior
	AN1101/D	One-Horsepower Off-Line Brushless Permanent Magnet Motor Drive
	AN1102/D	Interfacing Power MOSFETs to Logic Devices
	AN1120/D	Basic Servo Loop Motor Control Using the MC68HC05B6 MCU
	AN1317/D	High-Current DC Motor Drive Uses Low On-Resistance Surface Mount MOSFETs
	AN1320/D	300 Watt, 100 kHz Converter Utilizes Economical Bipolar Planar Power Transistor
	AR141/D	Applying Power MOSFETs in Class D/E RF Power Amplifier Design
	AR160/D	Lossless Current Sensing with SENSEFETs Enhances Motor Drive
The state of the s	AR175/D	A Power FET SPICE Model from Data Sheet Specs
	AR326/D	High-Voltage MOSFETs Simplify Flyback Design
	AR346/D	RF Power FETs: Their Characteristics and Applications
	EB104/D	Get 600 Watts RF from Four Power FETs
	EB123/D	A Simple Brush Type DC Motor Controller
TANK T	EB124/D	MOSFETs Compete with Bipolars in Flyback Power Supplies
	EB125/D	Testing Power MOSFET Gate Charge
	EB128/D	Simple, Low-Cost Motor Controller
	EB131/D	Curve Tracer Measurement Techniques for Power MOSFETs
	EB141/D	Boost MOSFETs Drive Current in Solid State AC Relay
	EB142/D	The MOSFET Turn-Off Device – A New Circuit Building Block

Additional information relevant to FET y be found in the following Motorola documents:

may be ic	duna in the following motorola documents:
BR470/D	Motorola Discretes – The Complete Solution
BR904/D	MIL-Processed Devices: Technical Data
BR923/D	Discrete & Materials Technologies Group, Reliability Audit Report
BR1414/D	MIL-Processed Hermetic Power Discrete Semiconductors
DL126/D	Small-Signal Transistors, FETs and Diodes Device Data
DI 135/D	TMOS Power MOSEFT Transistor

FET continued	
DL148/D	Discrete Military Operations Data
DL414/D	FET Applications Manual
SG145E/D	Small Signal FETs: Siliconix to Motorola Cross Reference
SG163/D	SOT-223 Surface Mount Products Selector Guide
SG265/D	Power MOSFETs Update
SG272/D	TO-247 Selector Guide
SG275/D	Surface Mount Packages, Small-Signal Operations

Instrumentation and Control

AN220/D	FETs in Chopper and Analog Switching Circuits
AN421/D	Semiconductor Noise Figure Considerations
AN431/D	Temperature Measurement and Display Using the MC68HC05B4 and the MC14489
AN470/D	Bipolar Chopper Transistors and Circuits
*AN541/D	Medium Scale Integration in the Numerical Control Field
*AN581/D	An MSI 500MHz Frequency Counter Using MECL and MTTL
*AN742/D	A 200MHz Autoranging MECL – McMOS Frequency Counter
*AN782/D	Interfacing and Controlling Digital Temperature Data Using the MC6800
AN885/D	A General Purpose Frequency Counter Using an M6805 HMOS/M146805 CMOS
*AN889/D	MC14500B Development System
AN923/D	800MHz Test Fixture Design
AN924/D	Measurement of Zener Voltage to Thermal Equilibrium with Pulsed Test Current
AN1050/D	Designing for Electromagnetic Compatibility (EMC) with HCMOS Microcontrollers
AN1058/D	Reducing A/D Errors in Microcontroller Applications
AN1065/D	Use of the MC68HC68T1 Real-Time Clock with Multiple Time Bases
AN1067/D	Pulse Generation and Detection with Microcontroller Units
AN1102/D	Interfacing Power MOSFETs to Logic Devices
AN1126/D	Evaluation Systems for Remote Control Devices on an Infrared Link
AN1304/D	Integrated Sensor Simplifies Bar Graph Pressure Gauge
AN1305/D	An Evaluation System for Direct Interface of the MPX5100 Pressure Sensor with a

Microprocessor

AN1316/D	Frequency Output Conversion for MPX2000 Series Pressure Sensors
AN1405/D	ECL Clock Distribution Techniques
APR15/D	Implementation of Adaptive Controllers on the Motorola DSP56000/DSP56001
AR255/D	Simplified Remote Control Circuits
AR511/D	Biasing Solid State Amplifiers to Linear Operation
AR517/D	High Resolution Position Sensor for Motion Control System
BF8105/D	MC145026 and MC145027 Remote Control System
DC410/D	Fuzzy Logic – A New Approach to Embedded Control Solutions
EB48/D	A Time Base and Control Logic Subsystem for High-Frequency, High-Resolution
EB157/D	Creating Applications with the LonBuilder Multi-Function I/O Kit
EB159/D	Neuron Chip-based Installation of LonWorks Networks
EB409/D	The MI-BUS and Product Family for Multiplexing Systems

Additional information relevant to instrumentation and Control may be found in the following Motorola documents:

BR332/D	Motorola Operational Amplifiers: Still Growing Strong
BR924/D	Military Analog Lineup
BR1413/D	Military 35102 Sleep-Mode Op Amp
BRE414/D	The MC34080 Series of J-FET Input Op Amps
BRE415/D	J-FET and Bipolar Operational Amplifiers – Linear Leader
BRE417/D	Motorola/TI Cross Reference Chart
DL412/D	Industrial Control Applications Manual
LONPROD/D	LonWorks Products 1992
SG96/D	Linear and Interface Integrated Circuits Selector Guide & Cross Reference
SG117/D	Data Conversion Products
SG169/D	MOS Digital-Analog Integrated Circuits
SGE102R1/D	CMOS System IC Selection Guide

Interfacing

see also Telecommunications

AN442/D	Driving LCDs with M6805 Microprocessors
AN449/D	An MC68340 to M88000 MBUS Bus Translator
AN451/D	An MC68340-based Input/Output Processor Design

N453/D	Serial Peripheral Interface Device Emulation Routine for the MC68340
N708A/D	Line Driver and Receiver Considerations
AN741/D	Interface Considerations for Numeric Display Systems
N781A/D	Revised Data-Interface Standards
AN782/D	Interfacing and Controlling Digital Temperature Data Using the MC6800
AN801/D	Using Input/Output Modules in Industrial Control Applications
N864A/D	Interfacing Multiplexed Bus Peripherals with Non-Multiplexed MPUs
N991/D	Using the Serial Peripheral Interface to Communicate Between Multiple Microcomputers
N993/D	Serial-to-Parallel Converter Using the MC68705P3
N1016/D	Infrared Sensing and Data Transmission Fundamentals
N1061/D	Reflecting on Transmission Line Effects
N1066/D	Interfacing the MC68HC05C5 SIOP to an I ² C Peripheral
N1082/D	Simple Design for a 4-20mA Transmitter Interface Using a Motorola Pressure Sensor
N1102/D	Interfacing Power MOSFETs to Logic Devices
N1123/D	MCS3201 Floppy Disk Controller in MC68000 System
N1126/D	Evaluation Systems for Remote Control Devices on an Infrared Link
N1203/D	A Software Method for Decoding the Output from the MC14497/MC3373 Combination
N1316/D	Frequency Output Conversion for MPX2000 Series Pressure Sensors
N1402/D	MC10/100H00 Translator Family I/O SPICE Modelling Kit
N1404/D	ECLinPS Circuit Performance at Non-Standard V/H Levels
N1406/D	Designing with PECL (ECL at +5.0V)
N1408/D	Power Dissipation for Active SCSI Terminators
NE007/D	Automotive Multiplex Wiring - An Example
NE405/D	Bi-Directional Data Transfer Between MC68HC11 and MC6805L3 Using SPI
NE415/D	MC68HC11 Implementation of IEEE-488 Interface for DSP56000 Monitor
AR223/D	SCSI Protocol and Controller Ease Bus Arbitration
R266/D	LCD Driver with Serial Interface

DC409/D	FDDI Chip Set Interface to an 80486 System
EB406/D	Getting Started with the FDDI ADS Board
EB409/D	The MI-BUS and Product Family for Multiplexing Systems

	nal information relevant to interfacing nd in the following Motorola documents:
BR428/D	Standard Digital Bus Interfaces
BR477/D	Smart-Mover – Stepper Motors with Integrated Serial Bus Controller
BR1305/D	Linear Integrated Circuits: New Product Calendar
BR1331/D	Introducing Motorola's ALExIS Bus Interface Solutions
BR1332/D	Logic Integrated Circuits Division: New Product Calendar – Fourth Quarter, 1992
BR1415/D	Military Telecom Special Functions
DL411/D	Communications Applications Manual
DL412/D	Industrial Control Applications Manual
MC6801RM/AD2	MC6801 8-bit Single-Chip Microcompute Reference Manual
SG96/D	Linear and Interface Integrated Circuits Selector Guide & Cross Reference
SG117/D	Data Conversion Products
SG169/D	MOS Digital-Analog Integrated Circuits
TB316/D	Single- & Multi-Chip MCU Interfacing (Lipovski, 1988)
TB318/D	Microprocessor Systems Design: 68000 Hardware, Software and Interfacing (Clements, 1987)

Logic cmos	
AN450/D	IC Design: A Statistical Approach to Electromigration
*AN738/D	NBCD Sign and Magnitude Adder/Subtracter
*AN741/D	Interface Considerations for Numeric Display Systems
*AN742/D	A 200MHz Autoranging MECL – McMOS Frequency Counter
*AN753/D	Scanning Logic for RF Scanner-Receivers Using CMOS Integrated Circuits
*AN759/D	A CMOS Keyboard Data Entry System for Bus Oriented Memory Systems
AN770/D	Data Acquisition Networks with NMOS and CMOS
*AN806A/D	Operation of the MC14469
AN1091/D	Low Skew Clock Drivers and their System Design Considerations
AN1102/D	Interfacing Power MOSFETs to Logic Devices
AN1400/D	MC10/100H640 Clock Driver Family I/O SPICE Modelling Kit

Logic:	CMOS	continued	
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AN1401/D Using SPICE to Analyze the Effects of Board Layout on System Skew When Designing with the MC10/100H640 Family of Clock Drivers

AN1402/D MC10/100H00 Translator Family I/O SPICE Modelling Kit

AN1403/D FACT I/O Model Kit

AN1406/D Designing with PECL (ECL at +5.0V)

AN1408/D Power Dissipation for Active SCSI Terminators

AR300/D The Hidden Dangers of Electrostatic Discharge – ESD

Additional information relevant to CMOS may be found in the following Motorola documents:

BR460/D	The European Blue Book, 1992 – Qualified Semiconductor Products
BR1331/D	Introducing Motorola's ALExIS Bus Interface Solutions
BR1332/D	Logic Integrated Circuits Division: New Product Calendar
BR1407/D	3.3 Volt Logic & Interface Circuits
BRE378/D	UnitPAK Packaging
DL129/D	High Speed CMOS Logic Data
DL131/D	CMOS Logic Data
DL138/D	FACT Data
SG138/D	Commercial Plus and Mil/Aero Application IC & Discrete Selector Guide
SG366/D	TTL, ECL, CMOS and Special Logic Circuits Selector Guide

CMOS System IC Selection Guide

ECL

SGE102R1/D

*AN504/D	The MC1600 Series MECL III Gates
AN556/D	Interconnection Techniques for Motorola's MECL 10,000 Series Emitter Coupled Logic
AN567/D	MECL Positive and Negative Logic
*AN579/D	Testing MECL 10,000 Integrated Logic Circuits
*AN581/D	An MSI 500MHz Frequency Counter Using MECL and MTTL
*AN700/D	Simulate MECL System Interconnections with a Computer Program
AN701/D	Understanding MECL 10,000 DC and AC Data Sheet Specifications
AN720/D	Interfacing with MECL 10,000 Integrated Circuits
AN726/D	Bussing with MECL 10,000 Integrated Circuits
AN730A/X	A High Speed FIFO Memory Using the MECL MCM10143 Register File

*AN742/D A 200MHz Autoranging MECL – McMOS Frequency Counter

*AN774/D	A Simple High Speed Bipolar Microprocessor Illustrates System Design and Microprogram
	Techniques

AN1051/D Transmission Line Effects in PCB Applications

AN1061/D Reflecting on Transmission Line Effects

AN1092/D Driving High Capacitance DRAMs in an ECL System

AN1400/D MC10/100H640 Clock Driver Family I/O SPICE Modelling Kit

AN1401/D Using SPICE to Analyze the Effects of Board Layout on System Skew when Designing with the MC10/100H640 Family of Clock Drivers

AN1402/D MC10/100H00 Translator Family I/O SPICE Modelling Kit

AN1404/D ECLinPS Circuit Performance at Non-Standard VIH Levels

AN1405/D ECL Clock Distribution Techniques

AN1406/D Designing with PECL (ECL at +5.0V)

AN1503/D ECLinPS™ I/O SPICE Modelling Kit

AN1503/D ECLINPS™ //O SPICE Modelling Kit

AN1504/D Metastability and the ECLinPS™ Family

AR519/D Low-Skew Clock Drivers: Which Type Is Best?

Additional Information relevant to ECL may be found in the following Motorola documents:

BR347/D	Bipolar Logic Circuits - Quality & Reliability
BR378/D	Unit/PakSM Packing
BR1330/D	ECLinPS Lite Single Gate ECL Devices
BR1332/D	Logic Integrated Circuits Division: New Product Calendar
BR1333/D	Low Skew Clock Drivers and Programmable Delay Circuits
BR1409/D	ECL300 Logic Array
BRE372/D	ECLIPS Mini Data Book
BRE378/D	UnitPAK Packaging
DL122/D	MECL Device Data
DL140/D	ECLinPS Device Data
DL145/D	Military MECL Family Data
DL413/D	Radio, RF and Video Applications Manual
HB205/D	MECL System Design Handbook
SG138/D	Commercial Plus and Mil/Aero Application IC & Discrete Selector Guide
SG366/D	TTL, ECL, CMOS and Special Logic Circuits Selector Guide

TTL

*AN581/D An MSI 500MHz Frequency Counter Using MECL and MTTL

AN1051/D Transmission Line Effects in PCB Applications

AN1061/D Reflecting on Transmission Line Effects

Logic: TTL	continued
AN1091/D	Low Skew Clock Drivers and Their System Design Considerations
AN1102/D	Interfacing Power MOSFETs to Logic Devices
AN1400/D	MC10/100H640 Clock Driver Family I/O SPICE Modelling Kit
AN1401/D	Using SPICE to Analyze the Effects of Board Layout on System Skew When Designing with the MC10/100H640 Family of Clock Drivers
AN1402/D	MC10/100H00 Translator Family I/O SPICE Modelling Kit
AN1406/D	Designing with PECL (ECL at +5.0V)

Additional information relevant to TTL may be found in the following Motorola documents:

BR347/D	Bipolar Logic Circuits – Quality & Reliability
BR378/D	Unit/PakSM Packing
BR460/D	The European Blue Book, 1992 – Qualified Semiconductor Products
BR1332/D	Logic Integrated Circuits Division: New Product Calendar
BRE378/D	UnitPAK Packaging
DL121/D	FAST and LS TTL Data
DL138/D	FACT Data
DL142/D	Military ALS/FAST/LS/TTL Data
SG138/D	Commercial Plus and Mil/Aero Application Military IC & Discrete Selector Guide
SG366/D	TTL, ECL, CMOS and Special Logic Circuits Selector Guide

Memories

AN429/D	MC68332 QSPI Interface for the MCM2814 EEPROM
AN432/D	128K byte Addressing with the M68HC11
AN434/D	Serial Bootstrap for the RAM and EEPROM1 of the MC68HC05B6
AN439/D	Booting an MC68040 from a Single Byte-Wide EEPROM
AN441/D	MC68HC05E0 EPROM Emulator
AN444/D	An MC68040-based Zero Wait State Evaluation System
AN446/D	MCM2814 Gang-Programmer Using an MC68HC805B6
AN447/D	An MC88100/MC88200 20/25/33MHz System DRAM Design
AN447A/X	Appendix to AN447/D: "An MC88100/MC88200 20/25/33MHz System DRAM Design"
AN452/D	Using the MC68HC11K4 Memory Mapping Logic
*AN550/D	Programming the MCM5003/5004 Programmable Read Only Memory

1	AN730A/X	A High Speed FIFO Memory Using the MECL MCM10143 Register File
	*AN740/D	The Design of an N-Channel 16K x 16 Bit Memory System for the PDP-11
	*AN805/D	The 5 Volt, 64K Dynamic RAM Is Here, So Is the 32K, So Is the 16K!!!
	*AN816/D	Software Refreshed Memory Card for the MC68000
	*AN838/D	High Performance Memory Design Technique for the MC68000
1	*AN909/D	MCM2833 Functional Description
	AN941/D	A 2.0MHz MC68B09E System with Transparent Refresh of Dynamic RAM
	AN971/D	Avoiding Bus Contention in Fast Access RAM Designs
1	AN973/D	Avoiding Data Errors with Fast Static RAMs
ı	*AN984/D	25MHz Logical Cache for an MC68020
	AN986/D	Page, Nibble, and Static Column Modes: High-Speed, Serial-Access Options on 1M-Bit + DRAMs
ı	AN987/D	DRAM Refresh Modes
	AN1051/D	Transmission Line Effects in PCB Applications
	AN1059/D	Pseudo Static RAM Simplifies Interfacing with Microprocessors
	AN1061/D	Reflecting on Transmission Line Effects
1	AN1063/D	DRAM Controller for the MC68340
l	AN1092/D	Driving High Capacitance DRAMs in an ECL System
1	AN1124/D	1 Meg to 4 Meg DRAM Upgrading
1	AN1125/D	DRAM Interface to the MC8820M Bus
1	AN1127/D	High Speed DRAM Design for the 40MHz MC68EC030
	AN1129/D	Effect of Cache Memory and Latency on MC88100 Performance
	AN1214/D	MC88110 64-bit External Bus Interface to 16-bit EPROM
l	AN1223/D	A Zero Wait State Secondary Cache for Intel's Pentium™
ı	AN1502/D	Embedded RAM BIST
ı	APR11/D	DSP56001 Interface Techniques and Examples
1	AR241/D	Building Fast SRAMs with No Process 'Tricks'
	*AR248/D	Memory Management in the 68030 Microprocessor
	AR256/D	Motorola's Radical SRAM Design Speeds Systems 40%
	*AR257/D	Maximize Performance by Choosing Best Memory
-	AR258/D	High Frequency System Operation Using Synchronous SRAMs
	AR260/D	Enhancing System Performance Using Synchronous SRAMs

Memories	continued
AR270/D	Designing a Cache for a Fast Processor
ARE001/D	High-Speed Components and a Cache Memory Lower Access Times
DC001/D	Virtual Memory Using the MC68000 and the MC68451
EB162/D	Programming Tips (MC88110)
EB163/D	Running the MC88110 in Lockstep
EB164/D	Interrupt Latency in the MC88110
EB165/D	Hardware Implications of xmem as a st followed by a ld
EB404/D	"Memories Are Made of This" a Look at Memory Considerations for Smart Card Applications

Additional Information relevant to Memories may be found in the following Motorola documents:

	54 PT 1 - 1 () - 1 () - 1 () - 1 () () () () () () () () () (
BR905/D	Military Fast Static RAM Fact Sheet
BR915/D	The Military 32K x 8 is Available Now
BR1100/D	Semiconductor Products Sector Memory Products Reliability and Quality Report
BRE306R1/D	Monolithic Diode Arrays
DL122/D	MECL Device Data
DL155/D	Dynamic RAMs and Memory Modules
DL156/D	Fast Static RAM – BiCMOS, CMOS and Module Data
MC88200UM/AD	MC88200 Cache/Memory Management Unit User's Manual
SG138/D	Commercial Plus and Mil/Aero Application IC & Discrete Selector Guide
SG171/D	Fast Static RAM Update
SG172/D	Dynamic kRAM Update
SG366/D	TTL, ECL, CMOS and Special Logic Circuits Selector Guide
SGE102R1/D	CMOS System IC Selection Guide

Microprocessors

8-bit MPU/MCU

AN427/D	MC68HC11 EEPROM Error Correction Algorithms in C
AN431/D	Temperature Measurement and Display Using the MC68HC05B4 and the MC14489
AN432/D	128K byte Addressing with the M68HC11
AN433/D	TV On-Screen Display Using the MC68HC05T1
AN434/D	Serial Bootstrap for the RAM and EEPROM1 of the MC68HC05B6
AN440/D	MC68HC805B6 and MC68HC705B5 Serial/Parallel Programming Module
AN441/D	MC68HC05E0 EPROM Emulator
AN442/D	Driving LCDs with M6805 Microprocessors

AN446/D	MCM2814 Gang-Programmer Using an MC68HC805B6
AN448/D	"FLOF" Teletext using M6805 Microcontrollers
AN452/D	Using the MC68HC11K4 Memory Mapping Logic
AN456/D	Using PCbug11 as a Diagnostic Aid for Expanded Mode M68HC11 Systems
AN458/D	A Self-Test Approach for the MC68HC11A/E
AN459/D	A Monitor for the MC68HC05E0
AN460/D	An RDS Decoder Using the MC68HC05E0
*AN797/D	MC6801/03 Port Expansion
*AN807/D	Special Considerations in Using the MC6801 Interrupt Capabilities
*AN817/D	Asynchronous Communications for the MC68000 Using the MC6850
*AN820/D	Hardware Considerations for Direct Memory Access Using the MC6809 Microprocessor Unit and MC6844 DMA Controller
*AN852/D	Monitor for the MC146805G2L1 Microcomputer
AN857/D	MC68705P3/R3/U3 8-bit EPROM Microcomputer Programming Module
AN864A/D	Interfacing Multiplexed Bus Peripherals with Non-Multiplexed MPUs
*AN865/D	The MC6809/MC6809E SYNC Instruction
*AN866/D	Vectoring the Device Using Interrupt SYNC Acknowledge with the MC6809/MC6809E
AN885/D	Acknowledge with the MC6809/MC6809E
*AN888/D	Monitor for the MC146805F2L1 Microcomputer
AN892/D	A Dual Processor System, Using Two MC6809E MPUs on a Common Bus
AN894A/D	User Considerations for MC146818 Real Time Clock Applications
AN900/D	Using the M6805 Family On-Chip 8-bit A/D Converter
AN902/D	A Zero-Crossing Application for the M6805 HMOS Family
AN906A/D	Self-Programming the MC68701 and the MC68701U4
AN910/D	Self-Contained Self-Check Unit for M6805 Family Single-Chip Microcomputers
AN940/D	Telephone Dialing Techniques Using the MC6805
AN941/D	A 2.0MHz MC68B09E System with Transparent Refresh of Dynamic RAM
AN942/D	MC68704P2 8-bit EPROM Microcomputer Programming Module
AN966/D	MC68HC805C4 8-bit EEPROM Microcomputer Programming Module
AN974/D	MC68HC11 Floating-Point Package
AN991/D	Using the Serial Peripheral Interface to Communicate Between Multiple Microcomputers

Microproce	essors: 8-bit MPU/MCU continued	AN1316/D	Frequency Output Conversion for MPX2000 Pressure Series	
AN993/D	Serial-to-Parallel Converter Using the MC68705P3	ANE404/D	An Extended MC146805E2 CBUG05 System Using the MC68HC25	
AN997/D	CONFIG Register Issues Concerning the M68HC11 Family	ANE405/D	Bi-Directional Data Transfer Between MC68HC11 and MC6805L3 Using SPI	
AN1009/D	Programming the MC1468705F2 EPROM	ANE413/D	MC146805G2 to MC68HC05C4 Conversion	
	Microcomputer Unit (MCU)	ANE416/D	MC68HC05B4 Radio Synthesizer	
AN1010/D	MC68HC11 EEPROM Programming from a Personal Computer	ANE418/D	MC68HC805B6 Low-Cost EEPROM Microcomputer Programming Module	
AN1011/D	MC146805G2 to MC68HC05C4 Conversion	ANE420/D	Monitor Program for the MC68HC05B6	
AN1050/D	Designing for Electromagnetic Compatibility (EMC) with HCMOS Microcontrollers	ANE421/D	Microcomputer Unit MC68HC704P4 8-bit EPROM Microcomputer	
AN1055/D	M6805 16-bit Support Macros	ANLAZIID	Programming Module	
AN1057/D	Selecting the Right Microcontroller Unit	ANE422/D	An Application Note on a MC68HC04 Based	
AN1058/D	Reducing A/D Errors in Microcontroller		Intruder Deterrent	
AN1060/D	Applications MC68HC11 Bootstrap Mode	ANE425/D	Use of the MC68HC68T1 RTC with M6805 Microprocessors	
AN1064/D	Use of Stack Simplifies M68HC11	*AR264/D	Hi-Tech Encoder	
AN 1004/D	Programming	BF8401/D	Temperature and Pressure Measurement with	
AN1065/D	Use of the MC68HC68T1 Real-Time Clock		MC6805	
	with Multiple Time Bases	DC410/D	Fuzzy Logic – A New Approach to Embedded Control Solutions	
AN1066/D	Interfacing the MC68HC05C5 SIOP to an I ² C Peripheral	EB408/D	MC68HC705T3 Bootloader	
AN1067/D	Pulse Generation and Detection with Microcontroller Units	Additional information relevant to 8-bit MPU/MCU		
AN1091/D	Low Skew Clock Drivers and Their System	may be found in the following Motorola documents:		
	Design Considerations	ADCRM/AD	Analog-to-Digital Converter Reference Manual	
AN1097/D	Calibration-Free Pressure Sensor System	BR261/D	8/16/32-bit Microcontrollers from Motorola	
AN1102/D	Interfacing Power MOSFETs to Logic Devices	BR266/D	M68HC11EVM Evaluation Module	
AN1120/D	Basic Servo Loop Motor Control Using the	BR278/D	M68HC11EVB Evaluation Board	
	MC68HC05B6 MCU	BR285/D	M68701EVM Evaluation Module	
AN1122/D	Running the MC44802A PLL Circuit	BR291/D	M68705EVM Evaluation Module	
AN1203/D	A Software Method for Decoding the Output	BR295/D BR411/D	M68HC05EVM Evaluation Module The M68HC11 Microcontroller Family	
	from the MC14497/MC3373 Combination	BR433/D	M68HC05 8-bit Microcontrollers. The Home	
AN1212/D	J1850 Multiplex Bus Communications Using the MC68HC705C8 and the MC68HC58H1850	BR452/D	of the Industry Standard Microcontroller Motorola Development Support Guide	
	Communications Interface (JCI)	BR458/D	MC68HC05D9 8-bit Microcomputer with	
AN1215/D	PID Routines for HC11K4 and HC11N4 Microcontrollers	B11400/B	PWM Outputs and LED Drive: Technical Summary	
AN1218/D	HC05 to HC08 Optimization	BR467/D	MC68HC705C9/D9 8-bit Microcontroller	
AN1226/D	Use of the 68HC705C8A in Place of 68HC705C8	BR527/D	Unit – Technical Summary MC146805F2 Technical Summary	
ANI1227/D	LOS COMO ENCUESES ACCUSADOS ESTADOS ES	BR568/D	MCU Freeware	
AN1227/D	Using 9346 Series Serial EEPROMs with 6805 Series Microcontrollers	BR597/D	MC68HC05P1 Technical Summary	
AN1228/D	Interfacing the HC05 MCU to the MC145051	BR599/D	MC68HC05B4 Technical Summary	
	A/D Converter	BR706/D	M68HC11F1EVM Evaluation Module	
AN1305/D	An Evaluation System for Direct Interface of	BR713/D	MC68HC05M4 Technical Summary	
	the MPX5100 Pressure Sensor with a	BR730/D	M68HC05PGMR Programmer Board	
	Microprocessor	BR735/D	M68HC05P8EVS CSIC Evaluation System	
AN1311/D	Software for an 8-bit Microcontroller Based Brushed DC Motor Drive	BR736/D	M68HC11EVBU Universal Evaluation Board	
		BR748/D	M68HC711D3PGMR Programmer Board	

Microprocessors:	8-bit MPU/MCU continued	MCCIRM/AD	Multichannel Communication Interface Reference Manual
BR751/D	MC68HC711K4 Technical Summary	SG138/D	Commercial Plus and Mil/Aero Application
BR764/D	M68HC05 CSIC Portfolio		IC & Discrete Selector Guide
BR774/D	MC68HC11L6 Technical Summary	SG165/D	CSIC Microcontrollers Update
BR775/D	MC68HC711E9 Technical Summary	SG166/D	Advanced Microcontroller Division Update
BR911/D	Military Microprocessor Fact Sheet	SG173/D	CSIC Modular Development Tools Update
BR913/D	The Military 68HC11A0 and 68HC11A1 Are	SGE102R1/I	
BR922/D	Available Now	TB301/D	Basic Microprocessors and the 6800 (Bishop, 1979)
BR1111/D	Military MCU — 68HC811E2	TB303/D	Using Microprocessors and
BR1112/D	M68HC705J2/P9PGMR Programmer Board M68(HC)05 Customer Specified Integrated Circuit (CSIC) Microcontroller Unit (MCU)		Microcomputers: The Motorola Family (Greenfield and Wray, Rev. 1, 1988)
	Literature	TB309/D	Programming the 6809 (Zaks & Labiak, 1982)
BR1113/D	M68HC705B5PGMR Programmer Board	TB316/D	Single- & Multi-Chip MCU Interfacing
BR1116/D	Advanced Microcontroller Unit (AMCU) Literature	TB327/D	(Lipovski, 1988)
BR1310/D	Our Low-Cost 68HC05 CSICs Can Take Your Designs to New Heights	16327/0	Using Small Microcontrollers (Sibigtroth, 1992)
BRE289/D	MC68HC811A2 Technical Summary	46 NA MOI	MACH
BRE368R1/D	MPU6805 Evaluation Board	16-bit MPU	
BRE435/D	M1468705EVM Evaluation Module	AN461/D	An Introduction to the HC16 for HC11 Users
BRE529/D	MC146805G2 Technical Summary	*AN802/D	Interconnections of the DS14500A ICU to the
BRE586/D	MC68HC811E2 Technical Summary	***********	Motorola Mounting System Boards
DL408/D	8-bit MCU Applications Manual	*AN810/D	Dual 16-bit Ports for the MC68000 Using Two MC6821s
DL411/D	Communications Applications Manual	*AN815/D	Colour Graphics for the MC68000 Using the
DLE404/D	M6804 MCU Manual	ANOTOID	MC6847
HC711D3EVB/AD1	M68HC711D3EVB Evaluation Board User's Manual	*AN819/D	Prioritized Individually Vectored Interrupts for Multiple Peripheral Systems with the
HC711D3PGMR/AD1	M68HC11711D3PGMR Programmer Board User's Manual		MC68000
M68HC05AG/AD	M68HC05 Applications Guide	AN854/D	The MC68230 Parallel Interface/Timer
M68HC05P9EVS/D1	M68HC05P9EVS Manual		Provides an Effective Printer Interface
M68HC11RM/AD	M68HC11 Reference Manual	AN897/D	MC68008 Minimum Configuration System
M68HC16PN01/D	Transporting M68HC11 Code to M68HC16 Devices	AN899/D	A Terminal Interface, Printer Interface and Background Printer for an MC68000-Based
M68PCBUG11/D2	M68HC11 PCbug11 User's Manual	100000	System Using the MC68681 DUART
M6805UM/AD3	M6805 HMOS / M146805 CMOS Family User's Manual	*AN996/D	MC68010 Microprocessor Prototype Board
M6809PM/AD	MC6809-MC6809E Microprocessor Programming Manual	AN1008/D	MC68824 Token Bus Controller to MC68010 Interface
MC68HC05CxRG/AD	MC68HC05Cx HCMOS Single-Chip Microcontrollers Programming Reference	AN1050/D	Designing for Electromagnetic Compatibility (EMC) with HCMOS Microcontrollers
	Guide	AN1091/D	Low Skew Clock Drivers and their System
MC68HC11A8RG/AD	MC68HC11A8 Programming Reference Guide		Design Considerations
MC68HC11D3RG/AD	MC68HC11D3/MC68HC711D3 Programming Reference Guide	AN1123/D	MCS3201 Floppy Disk Controller in MC68000 System
MC68HC11E9RG/AD	MC68HC11E9 Programming Reference Guide	AN1213/D	16-bit DSP Servo Control with the
MC68HC11F1RG/AD	MC68HC11F1 Programming Reference Guide		MC68HC16Z1
MC68HC11K4RG/AD	MC68HC11K4/MC68HC711K4 Programming Reference Guide	AN1214/D	MC88110 64-bit External Bus Interface to 16-bit EPROM
MC68HC11KA4RG/AD	MC68HC11KA4/MC68HC711KA4	AN1217/D	Interfacing to the MC88110
MOSSUCIAL SPOKE	Programming Reference Guide	APR402/D	Low Cost Controller for DSP56001
MC68HC11L6RG/AD	MC68HCL6/MC68HC711L6 Programming Reference Guide	AR208/D	Design Philosophy Behind Motorola's MC68000
MC68HC811E2RG/D	MC68HC811E2 Programming Reference Guide	*AR216/D	Multiprocessor Architecture Tunes In to Transaction Processing

MIcroprocessors: 16-bit MPU/MCU continued	
*AR226/D	Designing with the MC68008 Microprocessor
AR233/D	Software Links Math Chip to M68000 Family μPs
AR235/D	MC68000 Microprogrammed Architecture
AR243/D	A Comparison of M68000 Family Processors
*AR267/D	Moto Answers Back
DCE406/D	Interface for MC68000 to DSP56001 Host Port
EB164/D	Interrupt Latency in the MC88110

Additional information relevant to 16-bit MPU/MCU

	ormation relevant to 16-bit MPU/MCU in the following Motorola documents:
BR231/D	M68000 Family Technical Literature
BR259/D	MC68008 Technical Summary
BR261/D	8/16/32-bit Microcontrollers from Motorola
BR275/D	MC68HC000 Technical Summary
BR452/D	Motorola Development Support Guide
BR460/D	The European Blue Book, 1992 – Qualified Semiconductor Products
BR476/D	Power to Perform – the M68HC16 Microcontroller
BR911/D	Military Microprocessor Fact Sheet
BR1116/D	Advanced Microcontroller Unit (AMCU) Literature
BR1333/D	Low Skew Clock Drivers and Programmable Delay Circuits
BRE147/D	Architectural Contrast: M68000 Family and the 8086/iAPX86
BRE150/D	M68000 vs. iAPX86 Benchmark Performance
CPU16RM/AD	M68HC16 Family Reference Manual
DL409/D	16/32-bit Application Manual
M68HC16PN01/D	Transporting M68HC11 Code to M68HC16 Devices
M6809PM/AD	MC6809-MC6809E Microprocessor Programming Manual
M68000UM/AD	M68000 8-/16-/32-bit Microprocessors User's Manual, Eighth Edition
MC68HC16Z1UM/AD	MC68HC16Z1 User's Manual
SG138/D	Commercial Plus and Mil/Aero Application IC & Discrete Selector Guide
SG166/D	Advanced Microcontroller Division Update
TB303/D	Using Microprocessors and Microcomputers: The Motorola Family (Greenfield and Wray, Rev. 1, 1988)
TB318/D	Microprocessor Systems Design: 68000 Hardware, Software and Interfacing (Clements, 1987)
TB320/D	The M68000 Family. Volume 1: Architecture, Addressing Modes and Instruction Set (Hilf & Nausch, 1989)
TB322/D	The M68000 Family. Volume 2: Applications and the M68000 Devices
TB323/D	The 68000 Book (Southern, 1990)

32-bit MPU	/MCU
AN429/D	MC68332 QSPI Interface for the MCM2814 EEPROM
AN430/D	Adding Floating Point Support to an MC68030 High Performance System
AN435/D	MC68040 Benchmark Board
AN437/D	Using the MC68332 Periodic Interrupt Timer
AN439/D	Booting an MC68040 from a Single Byte-Wide EEPROM
AN444/D	An MC68040-based Zero Wait State Evaluation System
AN447/D	An MC88100/MC88200 20/25/33MHz System DRAM Design
AN447A/D	Appendix to AN447/D: "An MC88100/MC88200 20/25/33MHz System DRAM Design"
AN449/D	An MC68340 to M88000 MBUS Bus Translator
AN451/D	An MC68340-based Input/Output Processor Design
AN453/D	Serial Peripheral Interface Device Emulation Routine for the MC68340
AN455/D	Using the Table Interpolation Features of the CPU32
AN457/D	Providing a Real-time Clock for the MC68302
*AN972/D	Platform Boards for Development of MC68030-Based Systems
AN994RE/D	0 32-bit Computer Design Using 68020/68881/68851
AN1008/D	MC68824 Token Bus Controller to MC68010 Interface
AN1012/D	A Discussion of Interrupts for the MC68000
AN1015/D	MC68020 Minimum System Configuration
AN1051/D	Transmission Line Effects in PCB Applications
AN1061/D	Reflecting on Transmission Line Effects
AN1062/D	Using the QSPI for Analog Data Acquisition
AN1063/D	DRAM Controller for the MC68340
AN1091/D	Low Skew Clock Drivers and their System Design Considerations
AN1125/D	DRAM Interface to the MC88200 M Bus
AN1127/D	High Speed DRAM Design for the 40MHz MC68EC030
AN1129/D	Effect of Cache Memory and Latency on MC88100 Performance
AN1200/D	Configuring the M68300 Family Time Processing Unit (TPU)
AN1310/D	Using the MC68332 Microcontroller for AC Induction Motor Control
AN1401/D	Using SPICE to Analyze the Effects of Board Layout on System Skew When Designing with the MC10/100H640 Family of Clock Drivers

Microproce	essors: 32-bit MPU/MCU continued	BR261/D	8/16/32-bit Microcontrollers from Motorola
AN1405/D	ECL Clock Distribution Techniques	BR452/D	Motorola Development Support Guide
ANE009/D	Register Display Program for the MC68881/MC68882	BR460/D	The European Blue Book, 1992 – Qualified Semiconductor Products
ANE426/D	An MC68030 32-bit High Performance	BR461/D	M68000/M88000 Family Fact Sheet
ANE426/D	Minimum System	BR469/D	MC68302 Development Support – Technical Summary
AR217/D	The Motorola MC68020	BR473/D	M68EC020EVM Evaluation Module
AR225/D	Testing Approaches in the MC68020	BR508/D	MC68030 Technical Summary
AR232/D	The MC68020 32-bit MPU: Opening New	BR583/D	HYPERmodule Family Product Overview
319	Application Doors	BR588/D	MC88100 Technical Summary
AR242/D	A Benchmark Comparison of 32-bit Microprocessors	BR589/D BR729/D	MC88200 Technical Summary The 68K Source – Third Party Vendor
AR243/D	A Comparison of M68000 Family Processors	in the same of the	Catalog (USA) for the 68000 Family of Microprocessors
AR248/D	Memory Management in the 68030	BR733/D	MC68040 Fact Sheet
A112401D	Microprocessor	BR734/D	M68332EVS Evaluation System
AR253/D	Extra Functions and Higher Speed Push	BR742/D	M68000 Family Surface-Mount Packaging
711120072	Microprocessor to Top	DN/42/0	Update Update
*AR259/D	As Many 68020s to Sell in 1988 as 80386s	BR752/D	MC68340 Product Brief
AR267/D	Moto Answers Back	BR753/D	M68340EVS Product Brief
AR270/D	Designing a Cache for a Fast Processor	BR755/D	MC68331 Technical Summary
AR273/D	The 88000 Now	BR756/D	MC68332 32-bit Microcontroller – Technica Summary
AR275/D	Opus Systems' 88000 Workstation	BR911/D	Military Microprocessor Fact Sheet
AR350/D	Adapt Non-ISDN Terminals to ISDN Data Rates	BR919/D	Military Microprocessors – Motorola's 68030 and 68882
AR519/D	Low-Skew Clock Drivers: Which Type Is Best?	BR1109/D	68EC0x0 Microprocessor Family Software-Compatible MPUs for Embedded Control
DC407/D	Interfacing MC68020 and MC68030 to	BR1114/D	68300 Integrated Microprocessor Family
	DSP56001 Host Port	BR1115/D	68000 Microprocessor Family
DC408/D	MC88110 Single Stepping Code Example	BR1116/D	Advanced Microcontroller Unit (AMCU)
DCE402/D	MC68030 25MHz Benchmarking Board		Literature
DCE403/D	Interfacing 25MHz MC68030 to a 20MHz	BR1117/D	88110 RISC Microprocessor Preview
	MC68882	BR1118/D	Motorola's 68LC040 Microprocessor
DCE404/D	Hardware Trap for MC68000	BR1119/D	Motorola's 68EC040 Microprocessor
EB116/D	Chip-Select Generation for a 33.33MHz	BR1401/D	Military MC88100/MC88200
	MC68030 Microprocessor and a 33.33MHz	BR1406/D	Military 68332
	MC68882 Floating-Point Coprocessor	BR1420/D	Military 68040
EB117/D	MC88100 P-Bus Flexibility Using PCE	BRE243R3/D	MC68020 Technical Summary
EB162/D	Programming Tips	CPU32RM/AD	CPU32 Central Processor Unit Reference Manual
EB163/D	Running the MC88110 in Lockstep	DL409/D	16/32-bit Application Manual
EB164/D	Interrupt Latency in the MC88110	GPTRM/AD	Modular Microcontroller Family General
EB165/D	Hardware Implications of xmem as a st followed by a ld	M68000FR/AD	Purpose Timer Reference Manual M68000 Family Reference
TPUPN00/E	Using the TPU Function Library and TPU	M68000PM/AD	M68000 Family Programmer's Reference Manual
Emulation Mode TPUPN01/D Queued Output Match TPU Function (QOM)		M68020UM/AD	MC68020/MC68EC020 Microprocessors User's Manual
	in muschada SCED CHA ark gond) GIBVETHA -	M68040UM/AD	MC68040, MC68EC040, MC68LC040 Microprocessors User's Manual
	tional information relevant to 32-bit MPU/MCU be found in the following Motorola documents:	M68332EVKEM/AD1	M68332EVK Evaluation Kit Exercise Manual
BR030/D	The World Turns 030	MC68EC030UM/AD	MC68EC030 32-bit Embedded Controller
BR231/D	M68000 Family Technical Literature	南部广州市	User's Manual

Microprocessors:	32-bit MPU/MCU continued
MC68030UM/AD	MC68030 Enhanced 32-bit MPU User's Manual, Third Edition
MC68040DH/AD	MC68040 Designer's Handbook
MC68330UM/AD	MC68330 Integrated CPU32 Processor Users Manual
MC68331UM/AD	MC68331 User's Manual
MC68332UM/AD	MC68332 User's Manual
MC68340UM/AD	MC68340 Integrated Processor User's Manual
MC88100UM/AD	MC88100 RISC Microprocessor User's Manual
MC88110UM/AD	MC88110 Second Generation RISC Microprocessor User's Manual
MC88410UM/AD	MC88410 Secondary Cache Controller User's Manual
MC88110/410DH/AD	MC88110/MC88410 Designer's Handbook
MPC601UM/AD	PowerPC 601 RISC Microprocessor User's Manual
QSMRM/D	Queued Serial Module Reference Manual
SG138/D	Military IC & Discrete Selector Guide
SG166/D	Advanced Microcontroller Division Update
SG167/D	High End MPUs Update
SG416/D	Clock Driver Selector
TB303/D	Using Microprocessors and Microcomputers: The Motorola Family (Greenfield and Wray, Rev. 1, 1988)
TB320/D	The M68000 Family. Volume 1: Architecture, Addressing Modes and Instruction Set (Hilf & Nausch, 1989)
TB322/D	The M68000 Family. Volume 2: Applications and the M68000 Devices
TB323/D	The 68000 Book (Southern, 1990)
TB325/D	The Motorola MC68332 Microcontroller
TB325LM/D	Laboratory Manual: The MC68332 Microcontroller
TPURM/AD	M68300 Family Time Processor Unit Reference Manual

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*AN820/D	Hardware Considerations for Direct Memory Access Using the MC6809 Microprocessor Unit and MC6844 DMA Controller
AN864A/D	Interfacing Multiplexed Bus Peripherals with Non-Multiplexed MPUs
AN894A/D	User Considerations for MC146818 Real Time Clock Applications
ANE425/D	Use of the MC68HC68T1 RTC with M6805 Microprocessors
*AR223/D	SCSI Protocol and Controller Ease Bus Arbitration

Additional information relevant to 8-bit Peripherals may be found in the following Motorola documents:

BR1116/D	Advanced Microcontroller Unit (AMCU) Literature
MC6840UM/AD1	MC6840 Programmable Timer Fundamentals and Applications
SG96/D	Linear and Interface Integrated Circuits Selector Guide & Cross Reference
TB303/D	Using Microprocessors and Microcomputers: The Motorola Family (Greenfield and Wray, Rev. 1, 1988)
TB316/D	Single- & Multi-Chip MCU Interfacing (Lipovski, 1988)

16/32-bit Peripherals

I OI OE DIE!	or prior are
AN430/D	Adding Floating Point Support to an MC68030 High Performance System
AN457/D	Providing a Real-time Clock for the MC68302
AN854/D	The MC68230 Parallel Interface/Timer Provides an Effective Printer Interface
*AN880/D	An Evaluation Tool for the MC68451 MMU
*AN881/D	Dual-Ported RAM for the MC68000 Microprocessor
AN896A/D	Serial I/O, Timer and Interface Capabilities of the MC68901 Multi-Function Peripheral
AN899/D	A Terminal Interface, Printer Interface and Background Printer for an MC68000-Based System Using the MC68681 DUART
AN947/D	MC68881 Floating-Point Coprocessor As a Peripheral in an M68000 System
AN1013/D	MC68606 to Intel iAPX80186 Interface
AN1014/D	MC68606 to MC68020 Interface
AN1091/D	Low Skew Clock Drivers and their System Design Considerations
AN1405/D	ECL Clock Distribution Techniques
ANE426/D	An MC68030 32-bit High Performance Minimum System
*AR213/D	The MC68881 Floating-Point Coprocessor
*AR224/D	Standard SCSI Bus Facilitates Peripheral Control
*AR244/D	The Floating Point Performance Standard Gets Even Faster!
AR519/D	Low-Skew Clock Drivers: Which Type Is Best?
DC409/D	FDDI Chip Set Interface to an 80486 System

Additional information relevant to 16/32-bit Peripherals may be found in the following Motorola documents:

BR231/D	M68000 Family Technical Literature
BR272/D	MC68605 Technical Summary
BR460/D	The European Blue Book, 1992 – Qualified

Microprocessors	: 16/32-bit Peripherals continued
BR461/D	M68000/M88000 Family Fact Sheet
BR509/D	MC68882 Technical Summary
BR726/D	Motorola Data Communications Semiconductors
BR742/D	M68000 Family Surface-Mount Packaging Update
BR911/D	Military Microprocessor Fact Sheet
BR919/D	Military Microprocessors – Motorola's 68030 and 68882
BR930/D	Military Token Bus Controller - 68824
BR1104/D	Motorola's FDDI Chip Set
BR1332/D	Logic Integrated Circuits Division: New Product Calendar
BRE251R1/D	MC68450 Technical Summary
BRE262/D	Motorola's Video/Graphics Peripherals
BRE263R1/D	MC68230 Technical Summary
BRE286/D	MC68184 Technical Summary
BRE520/D	MC68606 Technical Summary
DL409/D	16/32-bit Application Manual
M68000FR/AD	M68000 Family Reference
MC68302UM/AD	MC68302 Integrated Multiprotocol Processor User's Manual
MC68488UM/AD	MC68488 General Purpose Interface Adapter User's Manual
MC68605UM/AD	MC68605 X.25 Protocol Controller User's Manual
MC68606UM/AD	MC68606 Multi-Link LAPD Protocol Controller User's Manual
MC68824UM/AD	MC68824 Token Bus Controller User's Manual
MC68836UM/AD	MC68836 FDDI User's Manual
MC68837UM/AD	MC68837 FDDI User's Manual
MC68838UM/AD	MC68838 FDDI User's Manual
MC68851UM/AD	MC68851 Paged Memory Management Unit User's Manual
MC68881UM/AD	MC68881/MC68882 Floating-Point Coprocessor User's Manual
MC88200UM/AD	MC88200 Cache/Memory Management Unit User's Manual
SG96/D	Linear and Interface Integrated Circuits Selector Guide & Cross Reference
SG138/D	Military IC & Discrete Selector Guide
SG167/D	High End MPUs Update
TB318/D	Microprocessor Systems Design: 68000 Hardware, Software and Interfacing (Clements, 1987)
TB322/D	The M68000 Family. Volume 2: Applications and the M68000 Devices
TB323/D	The 68000 Book (Southern, 1990)

MECL Bit Slice MPUs

*AN774/D	A Simple High Speed Bipolar Microprocessor
	Illustrates System Design and Microprogram
	Techniques
* 4 1 1 7 7 6 / 1	The MICONO MECH LOLD Processor Femilia

*AN776/D The M10800 MECL LSI Processor Family Motor & Lighting Control

Motor & Lighting Control

see also T	hyristors
AN443/D	Direction and Speed Control for Series, Universal and Shunt
*AN733/D	A ROM-Digital Approach to PWM-Type Speed Control of AC Motors
AN861/D	Power Transistor Safe Operating Area: Special Considerations for Motor Drives
AN876/D	Using Power MOSFETs in Stepping Motor Control
AN938/D	Mounting Techniques for PowerMacro Transistor
AN1045/D	Series Triacs in AC High Voltage Switching Circuits
AN1046/D	Three Piece Solution for Brushless Motor Controller Design
AN1048/D	RC Snubber Networks for Thyristor Power Control and Transient Suppression
AN1049/D	The Electronic Control of Fluorescent Lamps
AN1078/D	New Components Simplify Brush DC Motor Drives
AN1090/D	Understanding and Predicting Power MOSFET Switching Behavior
AN1101/D	One-Horsepower Off-Line Brushless Permanent Magnet Motor Drive
AN1120/D	Basic Servo Loop Motor Control Using the MC68HC05B6 MCU
AN1300/D	Interfacing Microcomputers to Fractional Horsepower Motors
AN1301/D	Interfacing Analog Inputs to Fractional Horsepower Motors
AN1307/D	A Simple Pressure Regulator Using Semiconductor Pressure Transducers
AN1310/D	Using the MC68332 Microcontroller for AC Induction Motor Control
AN1311/D	Software for an 8-bit Microcontroller Based Brushed DC Motor Drive
AN1317/D	High-Current DC Motor Drive Uses Low On-Resistance Surface Mount MOSFETs
AN1319/D	Design Considerations for a Low Voltage N-Channel H-Bridge Motor Drive
AR160/D	Lossless Current Sensing with SENSEFETS Enhances Motor Drive
AR301/D	Solid-State Devices Ease Task of Designing Brushless DC Motors
ARE402/D	The Electronic Control of Fluorescent Tubes
EB123/D	A Simple Brush Type DC Motor Controller
EB128/D	Simple, Low-Cost Motor Controller

Motor & Lighting Control continued

Boost MOSFETs Drive Current in Solid State AC Relay
The MOSFET Turn-Off Device – A New Circuit Building Block
Basic Halogen Converter
The MI-BUS and Product Family for Multiplexing Systems

Additional information relevant to Motor & Lighting Control may be found in the following Motorola documents:

BR470/D	Motorola Discretes – The Complete Solution
BR477/D	Smart Mover – Stepper Motors with Integrated Serial Bus Controller
BR924/D	Military Analog Lineup
DL111/D	Bipolar Power Transistor Data
DL412/D	Industrial Control Applications Manual
DL414/D	FET Applications Manual
SG96/D	Linear and Interface Integrated Circuits Selector Guide & Cross Reference

Mounting Techniques & Surface Mount

Mounting	g Techniques & Surface Mount
AN936/D	Mounting Techniques, Lead Forming and Testing of Motorola's MPX Series Pressure Transducers
AN938/D	Mounting Techniques for PowerMacro Transistor
AN1040/D	Mounting Considerations for Power Semiconductors
AN1041/D	Mounting Procedures for Very High Power RF Transistors
AN1051/D	Transmission Line Effects in PCB Applications
AN1061/D	Reflecting on Transmission Line Effects
AR145/D	DPAK: The Power Package for Surface Mount Applications
AR302/D	Thermal Management of Surface Mount Power Devices
AR323/D	Managing Heat Dissipation in DPAK Surface Mount Power Packages
AR513/D	Surface Mount: Discrete Component Trends
AR515/D	Wafers to Surface Mount Packages in One-Fourth the Time
AR516/D	Moto on 'Very Low-Scale Integration' Tack
AR523/D	An Overview of Surface Mount Technology (SMT) for Power Supply Applications
EB107/D	Mounting Considerations for Motorola RF Power Modules
EB109/D	Low Cost UHF Device Gives Broadband Performance at 3.0 Watts Output

Additional information relevant to Mounting Techniques may be found in the following Motorola documents:

BR370/D	TO-220 Leadform Options
BR396/D	Discrete Military Products - Chips
BR470/D	Motorola Discretes – The Complete Solution
BR742/D	M68000 Family Surface-Mount Packaging Update
BRE320R1/D	Motorola Semiconductor Packages Surface Mount Technology
DL111/D	Bipolar Power Transistor Data
SG163/D	SOT-223 Surface Mount Products Selector Guide
SG271/D	D ² PAK Surface Mount Selector Guide
SG275/D	Surface Mount Packages, Small-Signal Operations
SG370/D	Discrete Surface Mount

Networking

MOTMOLK	iiig
AN445/D	Software Model for the Implementation of I.430 ISDN Physical Layer on the MC145474/5 S/T Bus Transceiver
AN970/D	Hardware and Software Interface for the MC68605 X.25 Protocol Controller
AN1007/D	MC68824 Token Bus Controller to iAPX80186 Interface
AN1008/D	MC68824 Token Bus Controller to MC68010 Interface
AN1013/D	MC68606 to Intel iAPX80186 Interface
AN1014/D	MC68606 to MC68020 Interface
AN1054/D	ISDN System Development Using MC145490EVK/MC145491EVK Development Kits
*AR148/D	Carrier Bands Get NOD for Industrial Networks
*AR262/D	Some Silicon Solutions for MAP
AR350/D	Adapt Non-ISDN Terminals to ISDN Data Rates
DC004/D	Avoiding Transmit Underruns in a TBC-Based System
EB155/D	Analog to Digital Conversion with the Neuron Chip
EB157/D	Creating Applications with the LonBuilder Multi-Function I/O Kit
EB159/D	Neuron Chip-based Installation of LonWorks Networks
EB160/D	Neuron Chip Input/Output Timing Specification
EB161/D	LonTalk Protocol

Getting Started with the FDDI ADS Board

EB406/D

Networking continued

Additional	Information	relevant to N	etworking
may be found	In the follow	ving Motorola	documents:

	In the following Motorola documents:
BR726/D	Motorola Data Communications Semiconductors
BR1104/D	Motorola's FDDI Chip Set
BR1107/D	LonWorks™ Applications Primer
BR1108/D	LonWorks™ Product Line Brief
BR1305/D	Linear Integrated Circuits: New Product Calendar
BRE421/D	A Short Tutorial on Networking
DL136/D	Communications Device Data
DL411/D	Communications Applications Manual
DL412/D	Industrial Control Applications Manual
LONPROD/D	LonWorks Products 1992
MC68302UM/AD	MC68302 Integrated Multiprotocol Processor User's Manual
MC68606UM/AD	MC68606 Multi-Link LAPD Protocol Controller User's Manual
MC68824UM/AD	MC68824 Token Bus Controller User's Manual (1987)
MC68836UM/AD	MC68836 FDDI User's Manual
MC68837UM/AD	MC68837 FDDI User's Manual
MC68838UM/AD	MC68838 FDDI User's Manual
SG169/D	MOS Digital-Analog Integrated Circuits

Optoelectronics

	Optic Systems
*AN916/D	Applications of the MOC3031 and MOC3041 Zero-Crossing Triac Drivers
AN979/D	Guidelines for Circuit Board Assembly of

*AN804/D Applications of Ferruled Components to Fiber

Motorola Case 349 Opto Products

AN1016/D Infrared Sensing and Data Transmission Fundamentals

AN1126/D Evaluation Systems for Remote Control Devices on an Infrared Link

AN1203/D A Software Method for Decoding the Output from the MC14497/MC3373 Combination

AN1511/D Applications of the MOC2A40 and MOC2A60 Series POWER OPTO Isolators

AR517/D High Resolution Position Sensor for Motion Control System

EB406/D Getting Started with the FDDI ADS Board

Additional information relevant to Optoelectronics may be found in the following Motorola documents:

BR470/D	Motorola Discretes – The Complete Solution	
BR1421/D	Solutions to Your Custom Sensing Needs	
DL118/D	Optoelectronics Device Data	

SG167/D High End MPUs Update

Phase-Locked Loop

AN535/D	Phase-Locked Loop Design Fundamentals
AN827/D	The Technique of Direct Programming by Using a Two-Modulus Prescaler
AN1091/D	Low Skew Clock Drivers and their System Design Considerations
AN1207/D	The MC145170 in Basic HF and VHF Oscillators
AR254/D	Phase-Locked Loop Design Articles
AR519/D	Low-Skew Clock Drivers: Which Type Is

Additional Information relevant to Phase-Locked Loop may be found in the following Motorola documents:

BR133	32/D	Logic Integrated Circuits Division: New Product Calendar – Fourth Quarter, 1992
BR14	15/D	Military Telecom Special Functions
BR14	18/D	Military Analog, Telecom and Special Functions Fact Sheet
DL122	2/D	MECL Device Data
DL136	3/D	Communications Device Data
DL413	3/D	Radio, RF and Video Applications Manual
SG96/	/D	Linear and Interface Integrated Circuits Selector Guide & Cross Reference
SG36	6/D	TTL, ECL, CMOS and Special Logic Circuits Selector Guide
SGE1	02R1/D	CMOS System IC Selection Guide

Power

Power Supplies & Voltage Regulators

AN004E/D	Semiconductor Consideration for DC Power Supply Voltage Protector Circuits
AN587/D	Analysis and Design of the Op Amp Current Source
AN703/D	Designing Digitally-Controlled Power Supplies
AN719/D	A New Approach to Switching Regulators
*AN767/D	A Line Operated, Regulated 5V/50A Switching Power Supply
AN875/D	Power Transistor Safe Operating Area: Special Considerations for Switching Power Supplies
AN915/D	Characterizing Collector-to-Emitter and Drain-to-Source Diodes for Switchmode Applications
AN920/D	Theory and Applications of the MC34063 and µA78S40 Switching Regulator Control Circuits
AN929/D	Insuring Reliable Performance from Power MOSFETs
AN951/D	Drive Optimization for 1.0kV Off-Line Converter Transistors
*AN954/D	A Unique Converter Configuration
AN976/D	A New High Performance Current Mode Controller Teams Up with Current Sensing Power MOSFETs

Power Supp	olies & Voltage Regulators continued
AN1080/D	External-Sync Power Supply with Universal Input Voltage Range for Monitors
AN1090/D	Understanding and Predicting Power MOSFET Switching Behavior
AN1108/D	Design Considerations for a Two Transistor, Current Mode Forward Converter
AN1314/D	Automatic Line Voltage Selector
AN1320/D	300 Watt, 100 kHz Converter Utilizes Economical Bipolar Planar Power Transistor
ANE402/D	130W Ringing Choke Power Supply Using TDA4601
ANE424/D	50W Current Mode Controlled Offline Switch Mode Power Supply Working over 50% Duty Cycle Using the UC3842A
AR326/D	High-Voltage MOSFETs Simplify Flyback Design
AR340/D	The Low Forward Voltage Schottky
AR514/D	Build Ultra-Low Dropout Regulator
AR523/D	An Overview of Surface Mount Technology (SMT) for Power Supply Applications
EB85A/X	Full-Bridge Switching Power Supplies
EB124/D	MOSFETs Compete with Bipolars in Flyback Power Supplies
EB126/D	Ultra-Rapid Nickel-Cadmium Battery Charger
EB142/D	The MOSFET Turn-Off Device – A New Circuit Building Block

Additional information relevant to Power Supplies & Voltage Regulators may be found in the following Motorola documents:

RATOLD

**Motorola Discretes - The Complete | The Complete |

BR470/D	Solution
BR924/D	Military Analog Lineup
BR1305/D	Linear Integrated Circuits: New Product Calendar
BRE417/D	Motorola/TI Cross Reference Chart
DL111/D	Bipolar Power Transistor Data
DL410/D	Power Applications Manual
DL414/D	FET Applications Manual
SG79/D	Switchmode – A Designer's Guide for Switching Power Supply Circuits and Components
SG96/D	Linear and Interface Integrated Circuits Selector Guide & Cross Reference
SG138/D	Military IC & Discrete Selector Guide
TB321/D	Practical Switching Power Supply Design (Brown, 1990)

Power Device Characteristics

	Electromigration
AN803/D	The Effect of Emitter-Base Avalanching on High-Voltage Power Switching Transistors

AN450/D IC Design: A Statistical Approach to

AN845/D	New Power Bipolars Compare Favourably with FETs for Switching Efficiency
AN860/D	Power MOSFETs versus Bipolar Transistors
AN861/D	Power Transistor Safe Operating Area: Special Considerations for Motor Drives
AN873/D	Understanding Power Transistor Dynamic Behaviour: dv/dt Effects on Switching RBSOA
AN875/D	Power Transistor Safe Operating Area: Special Considerations for Switching Power Supplies
AN913/D	Designing with TMOS Power MOSFETs
AN924/D	Measurement of Zener Voltage to Thermal Equilibrium with Pulsed Test Current
AN930/D	High Voltage, High Current, Non-Destructive FBSOA Testing
AN952/D	Ultrafast Recovery Rectifiers Extend Power Transistor SOA
*AN956/D	The Operation and Application of the SMARTpower Overvoltage and Overtemperature Protectors
AN1043/D	Spice Model for TMOS Power MOSFETs
AN1048/D	RC Snubber Networks for Thyristor Power Control and Transient Suppression
AN1076/D	Speeding Up Horizontal Outputs
AN1083/D	Basic Thermal Management of Power Semiconductors
AN1090/D	Understanding and Predicting Power MOSFET Switching Behavior
AN1102/D	Interfacing Power MOSFETs to Logic Devices
AR120/D	Speeding Up the Very High Voltage Transistor
AR340/D	The Low Forward Voltage Schottky
AR346/D	RF Power FETs: Their Characteristics and Applications
EB79/D	Pulsed fT, a Technique for Accurately Measuring the Gain Bandwidth Product
EB125/D	Testing Power MOSFET Gate Charge
EB129/X	Snubbers for High Power Semiconductors
EB131/D	Curve Tracer Measurement Techniques for Power MOSFETs
EB200/D	An Evaluation Board for the MOC2A40 Series and MOC2A60 Series – Optically Isolated

Additional information relevant to Power Device Characteristics may be found in the following Motorola documents:

Zero Voltage Turn-On Triacs

BR370/D	TO-220 Leadform Options
BR470/D	Motorola Discretes – The Complete Solution
BR904/D	MIL-Processed Devices: Technical Data
BR923/D	Discrete & Materials Technologies Group, Reliability Audit Report
DL110/D	RF Device Data
DL111/D	Bipolar Power Transistor Data

Power: Power Dev	ice Characteristics continued	AN935/D	Compensating for Nonlinearity in the MPX10 Series Pressure Transducer
DL135/D DL148/D	TMOS Power MOSFET Transistor Data Discrete Military Operations Data	AN936/D	Mounting Techniques, Lead Forming and Testing of Motorola's MPX Series Pressure
DL150/D	TVS/Zener Device Data		Transducers
DL401/D	Power Switch	AN962/D	MPX Pressure Sensors Used for Switch Applications
DL410/D	Power Applications Manual	AN1082/D	Simple Design for a 4-20mA Transmitter
DL414/D	FET Applications Manual	AN 1002/D	Interface Using a Motorola Pressure Sensor
SG138/D	Military IC & Discrete Selector Guide	AN1097/D	Calibration-Free Pressure Sensor System
SG140/D	SCANSWITCH Selector Guide	AN1100/D	Analog to Digital Converter Resolution
SG265/D	Power MOSFETs Update		Extension Using a Motorola Pressure Sensor
SG266/D	Bipolar Power Transistors Update	AN1105/D	A Digital Pressure Gauge Using the Motorola
SG267/D	Rectifiers Product Update		MPX700 Series Differential Pressure Sensor
SG270/D	Discrete Semiconductor Cross Reference Guide – 1992	AN1302/D	Motorola Pressure Sensors – Recommended Housing for Very Low Absolute Pressure Measurements
SG370/D	Discrete Surface Mount	AN1303/D	A Simple 4-20mA Pressure Transducer Evaluation Board
Protection AN569/D	& Thermal Considerations Transient Thermal Resistance – General Data	AN1304/D	Integrated Sensor Simplifies Bar Graph Pressure Gauge
AN784/D	and Its Use Transient Power Capability of Zener Diodes	AN1305/D	An Evaluation System for Direct Interface of the MPX5100 Pressure Sensor with a
AN843/D	A Review of Transients and Their Means of Suppression	AN1307/D	Microprocessor A Simple Pressure Regulator Using Semiconductor Pressure Transducers
*AN956/D	The Operation and Application of the SMARTpower Overvoltage and Overtemperature Protectors	AN1309/D	Compensated Sensor Bar Graph Pressure Gauge
AN1083/D	Basic Thermal Management of Power	AN1312/D	Interfaced Sensor Evaluation Board
AN 1003/D	Semiconductors	AN1313/D	Sensor Building Block Evaluation Board
*AR170/D	Characterizing Overvoltage Transient Suppressors	AN1315/D	An Evaluation System Interfacing the MPX2000 Series Pressure Sensors to a Microprocessor
AR323/D	Managing Heat Dissipation in DPAK Surface Mount Power Packages	AN1316/D	Frequency Output Conversion for MPX2000 Series Pressure Sensors
AR510/D	VSWR Protection of Solid State RF Power Transistors	AN1318/D	Interfacing Semiconductor Pressure Sensors to Microcomputers
EB29/D	The Common Emitter TO-39 and Its Advantages	AN1322/D	Applying Semiconductor Sensors to Bar Graph Pressure Gauges
EB129/X	Snubbers for High Power Semiconductors	AN1324/D	A Simple Sensor Interface Amplifier
	ALE TO STANDARD OF THE PARTY OF	AN1325/D	Amplifiers for Semiconductor Pressure Sensors
	onal Information relevant to Protection & Thermal uns may be found in the following Motorola documents: TVS/Zener Device Data	AN1326/D	Barometric Pressure Measurement Using Semiconductor Pressure Sensors
DL410/D	Power Applications Manual	AN1513/D	Mounting Techniques and Plumbing Options of Motorola's MPX Series Pressure Sensors
Pressure S	Sensors	AN1516	Liquid Level Control Using a Motorola Pressure Sensor
AN840/D	Temperature Compensation Methods for the Motorola X-ducer Pressure Sensor Element	AN1517	Pressure Switch Design with Semiconductor Pressure Sensors
AN919/D	Using the Motorola X-ducer Pressure Sensor Data Sheet	AN1518	Using a Pulse Width Modulated Output with Semiconductor Pressure Sensors
AN922/D	Temperature Compensation, Calibration and Applications of Motorola's X-ducer Pressure Sensor	AR501S/D AR502S/D	Reliability Issues for Silicon Pressure Sensor The Design of a Monolithic Signal Conditioned Pressure Sensor

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Pressure Sensors continued

ARE139S/D Sensors: Medical Applications

BF8401/D Temperature and Pressure Measurement with

MC6805

Additional information relevant to Pressure Sensors

may be fo	ound in the following Motorola documents:
BR470/D	Motorola Discretes – The Complete Solution
BR923/D	Discrete & Materials Technologies Group, Reliability Audit Report
DL200/D	Pressure Sensor Device Data
DL412/D	Industrial Control Applications Manual
SG144E/D	Sensors: Competitor Cross Reference
SG162/D	Sensor Operations

Quality and Reliability

AN450/D	IC Design: A Statistical Approach to Electromigration
AN1040/D	Mounting Considerations for Power Semiconductors
AN1041/D	Mounting Procedures for Very High Power RF Transistors
AR300/D	The Hidden Dangers of Electrostatic Discharge – ESD

AR501S/D Reliability Issues for Silicon Pressure Sensors

Additional information relevant to Quality and Reliability may be found in the following Motorola documents:

BR347/D	Bipolar Logic Circuits - Quality & Reliability
BR460/D	The European Blue Book, 1992 – Qualified Semiconductor Products
BR518/D	Reliability & Quality Handbook
BR904/D	MIL-Processed Devices: Technical Data
BR923/D	Discrete & Materials Technologies Group, Reliability Audit Report
BR1100/D	Semiconductor Products Sector Memory Products Reliability and Quality Report
BR1202/D	Motorola Quality System Review Guidelines
HB213/D	Discrete Military Operation Handbook

Radio Applications

AN460/D	An RDS Decoder Using the MC68HC05E0
AN531/D	MC1596 Balanced Modulator
*AN753/D	Scanning Logic for RF Scanners-Receivers Using CMOS Integrated Circuits
AN878/D	VHF MOS Power Applications
AN923/D	800MHz Test Fixture Design
*AN925/D	UHF Preamplifier Centers on Budget Dual-Gate GaAs FET
AN980/D	VHF Narrowband FM Receiver Design Using the MC3362 and the MC3363 Dual Conversion Receivers
	AN531/D *AN753/D AN878/D AN923/D *AN925/D

AN1122/D	Running the MC44802A PLL Circuit
AN1207/D	The MC145170 in Basic HF and VHF Oscillators
ANE416/D	MC68HC05B4 Radio Synthesizer
AN-HK-02/H	Low Power FM Transmitter System MC2831A
AN-HK-07/H	HA High Performance Manual-Tuned Receiver for Automotive Application Using Motorola ICs MC13021, MC13020 and MC13041
AR511/D	Biasing Solid State Amplifiers to Linear Operation
EB27A/D	Get 300 Watts PEP Linear Across 2 to 30MHz from this Push-Pull Amplifier
EB59/D	Predict Frequency Accuracy for MC12060 and MC12061 Crystal Oscillator

Additional information relevant to Radio Applications may be found in the following Motorola documents:

BR470/D	Motorola Discretes – The Complete Solution
BR1305/D	Linear Integrated Circuits: New Product Calendar
BR1334/D	High Performance Frequency Control Products
BRE504/D	Electronic Tuning Address Systems
DL411/D	Communications Applications Manual
DL413/D	Radio, RF and Video Applications Manual
SG46/D	RF Products Selector Guide & Cross Reference
SG169/D	MOS Digital-Analog Integrated Circuits
SG366/D	TTL, ECL, CMOS and Special Logic Circuits Selector Guide
TB326/D	Radio Frequency Transistors – Principles & Applications (Dye & Grandberg, 1993)

RF

AN438/D	300W, 88 – 108MHz Amplifier Using the TP1940 MOSFETs Push-Pull Transistor
AN535/D	Phase-Locked Loop Design Fundamentals
AN593/D	Broadband Linear Power Amplifiers Using Push-Pull Transistors
*AN595/D	25 Watt and 10 Watt VHF Marine Band Transmitters
AN721/D	Impedance Matching Networks Applied to RF Power Transistors
AN779/D	Low-Distortion 1.6 to 30MHz SSB Driver Designs
AN791/D	A Simplified Approach to VHF Power Amplifier Design
AN847/D	Tuning Diode Design Techniques
AN878/D	VHF MOS Power Applications
AN955/D	A Cost Effective VHF Amplifier for Land Mobile Radios

AN1029/D TV Transposers Band IV and V Po = 0.5W/1.0W

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AN1030/D	1W/2W Broadband TV Amplifier Band IV and V	
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AN1106/D	Considerations in Using the MHW801 and MHW851 Series RF Power Modules	
AN1107/D	Understanding RF Data Sheet Parameters	
AR141/D	Applying Power MOSFETs in Class D/E RF Power Amplifier Design	
AR164/D	Good RF Construction Practices and Techniques	
AR176/D	New MOSFETs Simplify High Power RF Amplifier Design	
AR305/D	Building Push-Pull, Multioctave, VHF Power Amplifiers	
AR510/D	VSWR Protection of Solid State RF Power Transistors	
EB27A/D	Get 300 Watts PEP Linear Across 2 to 30MHz from this Push-Pull Amplifier	
EB29/D	The Common Emitter TO-39 and Its Advantages	
EB59/D	Predict Frequency Accuracy for MC12060 and MC12061 Crystal Oscillator	
EB77/D	A 60 Watt, 225-400MHz Amplifier – 2N6439	
EB79/D	Pulsed fT, a Technique for Accurately Measuring the Gain Bandwidth Product	
EB89/D	A 1 Watt, 2.3GHz Amplifier	
EB90/D	Low-Cost VHF Amplifier has Broadband Performance	
EB93/D	60 Watt VHF AMplifier Uses Splitting/ Combining Techniques	
EB104/D	Get 600 Watts RF from Four Power FETs	
EB107/D	Mounting Considerations for Motorola RF Power Modules	
EB109/D	Low Cost UHF Device Gives Broadband Performance at 3.0 Watts Output	

Additional information relevant to RF may be found in the following Motorola documents:

BR470/D	Motorola Discretes – The Complete Solution
BR904/D	MIL-Processed Devices: Technical Data
BR923/D	Discrete & Materials Technologies Group, Reliability Audit Report

BR1305/D	Linear Integrated Circuits: New Product Calendar
BR1334/D	High Performance Frequency Control Products
BR1418/D	Military Analog, Telecom and Special Functions Fact Sheet
DL110/D	RF Device Data
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DL148/D	Discrete Military Operations Data
DL413/D	Radio, RF and Video Applications Manual
DL414/D	FET Applications Manual
SG46/D	RF Products Selector Guide & Cross Reference
SG138/D	Military IC & Discrete Selector Guide
SG270/D	Discrete Semiconductor Cross Reference Guide – 1992
SGE112/D	Cross Reference for NEC-to-Motorola RF Transistors
TB326/D	Radio Frequency Transistors – Principles & Applications (Dye & Granberg, 1993)

Small Signal Transistors & Diodes

AN470/D	Bipolar Chopper Transistors and Circuits
*AN527/D	Theory, Characteristics and Applications of the Programmable Unijunction Transistor
AN1321/D	Brushless DC Motor Drive Incorporates Small Outline Integrated Circuit Packaged MOSFETs
AR515/D	Wafers to Surface Mount Packages in One-Fourth the Time
AR516/D	Moto on 'Very Low-Scale Integration' Tack

Additional Information relevant to Small Signal Transistors & Diodes may be found in the following Motorola documents:

may be fo	ound in the following Motorola documents:
BR460/D	The European Blue Book, 1992 – Qualified Semiconductor Products
BR470/D	Motorola Discretes – The Complete Solution
BR923/D	Discrete & Materials Technologies Group, Reliability Audit Report
DL126/D	Small-Signal Transistors, FETs and Diodes Device Data
SG145E/D	Small Signal FETs: Siliconix to Motorola Cross Reference
SG163/D	SOT-223 Surface Mount Products Selector Guide
SG270/D	Discrete Semiconductor Cross Reference Guide – 1992
SG275/D	Surface Mount Packages, Small-Signal Operations

Smart Card/Conditional Access

see also Microprocessors: 8-bit MPU/MCU

EB400/D Secure Single Chip Microcomputer Manufacture EB404/D "Memories Are Made of This" ... a Look at

Memory Considerations for Smart Card

Applications

Smart Cards: How to Deal Yourself a Winning EB405/D

Hand

Additional Information relevant to Smart Card/Conditional Access may be found in the following Motorola documents:

BR261/D 8/16/32-bit Microcontrollers from Motorola The Standard in Smartcard Chips BR445/D

Coffware & Drogramming

Software	& Programming
AN427/D	MC68HC11 EEPROM Error Correction Algorithms in C
AN429/D	MC68332 QSPI Interface for the MCM2814 EEPROM
AN431/D	Temperature Measurement and Display Using the MC68HC05B4 and the MC14489
AN434/D	Serial Bootstrap for the RAM and EEPROM1 of the MC68HC05B6
AN437/D	Using the MC68332 Periodic Interrupt Timer
AN441/D	MC68HC05E0 EPROM Emulator
AN453/D	Serial Peripheral Interface Device Emulation Routine for the MC68340
AN455/D	Using the Table Interpolation Features of the CPU32
AN456/D	Using PCbug11 as a Diagnostic Aid for Expanded Mode M68HC11 Systems
AN458/D	A Self-Test Approach for the MC68HC11A/E
AN459/D	A Monitor for the MC68HC05E0
AN974/D	MC68HC11 Floating-Point Package
AN1010/D	MC68HC11 EEPROM Programming from a Personal Computer
AN1011/D	MC146805G2 to MC68HC05C4 Conversion
AN1015/D	MC68020 Minimum System Configuration
AN1055/D	M6805 16-bit Support Macros
AN1060/D	MC68HC11 Bootstrap Mode
AN1064/D	Use of Stack Simplifies M68HC11 Programming
AN1200/D	Configuring the M68300 Family Time Processing Unit (TPU)

AN1203/D	A Software Method for Decoding the Output from the MC14497/MC3373 Combination
ANE009/D	Register Display Program for the MC68881/MC68882
ANE404/D	An Extended MC146805E2 CBUG05 System Using the MC68HC25
ANE425/D	Use of the MC68HC68T1 RTC with M6805 Microprocessors
AR273/D	The 88000 Now
DC408/D	MC88110 Single Stepping Code Example
DC410/D	Fuzzy Logic – A New Approach to Embedded Control Solutions
EB408/D	MC68HC705T3 Bootloader
TPUPN00/D	Using the TPU Function Library and TPU Emulation Mode

Additional information relevant to Software & Programming may be found in the following Motorola documents:

BR452/D	Motorola Development Support Guide
BR568/D	MCU Freeware
BR724/D	88open Sourcebook
BR729/D	The 68K Source – Third Party Vendor Catalog (USA) for the 68000 Family of Microprocessors
BR730/D	M68HC05PGMR Programmer Board
BR731/D	88open Consortium: Software Initiative
BR748/D	M68HC711D3PGMR Programmer Board
BR1111/D	M68HC705J2/P9PGMR Programmer Board
BR1113/D	M68HC705B5PGMR Programmer Board
BR1447/D	Design-NET Installation and Usage on the IBM PC
BR1448/D	Design-NET Installation and Usage on the Macintosh
HC711D3EVB/AD1	M68HC711D3EVB Evaluation Board User's Manual
HC711D3PGMR/AD1	M68HC11711D3PGMR Programmer Board User's Manual
M68PCBUG11/D2	M68HC11 PCbug11 User's Manual
M6809PM/AD	MC6809-MC6809E Microprocessor Programming Manual
M68000PM/AD	M68000 Family Programmer's Reference Manual
M68000UM/AD	M68000 8-/16-/32-bit Microprocessors User's Manual, Eighth Edition
M68332EVKEM/AD1	M68332EVK Evaluation Kit Exercise Manual
MC68HC11F1RG/AD	MC68HC11F1 Programming Reference Guide
MC68851UM/AD	MC68851 Paged Memory Management Unit User's Manual
SG146/D	Digital Signal Processors Update

Software & Pro	ogramming continued
TB301/D	Basic Microprocessors and the 6800 (Bishop, 1979)
TB309/D	Programming the 6809 (Zaks & Labiak, 1982)
TB313/D	Efficient C (Plum & Brodie, 1985)
TB316/D	Single- & Multi-Chip MCU Interfacing (Lipovski, 1988)
TB318/D	Microprocessor Systems Design: 68000 Hardware, Software and Interfacing (Clements, 1987)
TB320/D	The M68000 Family. Volume 1: Architecture, Addressing Modes and Instruction Set (Hilf & Nausch, 1989)
TB322/D	The M68000 Family. Volume 2: Applications and the M68000 Devices
TB323/D	The 68000 Book (Southern, 1990)
TPURM/AD	M68300 Family Time Processor Unit Reference Manual

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*AN700/D	Simulate MECL System Interconnections with a Computer Program
AN1400/D	MC10/100H640 Clock Driver Family I/O SPICE Modelling Kit
AN1401/D	Using SPICE to Analyze the Effects of Board Layout on System Skew when Designing with the MC10/100H640 Family of Clock Drivers
AN1402/D	MC10/100H00 Translator Family I/O SPICE Modelling Kit
AN1403/D	FACT I/O Model Kit
AN1503/D	ECLinPS™ I/O SPICE Modelling Kit

Telecommunications

see also Interfacing

AN457/D	Providing a Real-time Clock for the MC68302
*AN581/D	An MSI 500 MHz Frequency Counter Using MECL and MTTL
AN940/D	Telephone Dialing Techniques Using the MC6805
AN943/D	UDLT Evaluation Board
AN948/D	Data Multiplexing Using the Universal Digital Loop Transceiver and the Data Set Interface
AN949/D	A Voice/Data Modem Using the MC145422/26, MC145428 and MC14403
AN957/D	Interfacing the Speakerphone to the MC34010/11/13 Speech Networks
AN958/D	Transmit Gain Adjustments for the MC34014 Speech Network
AN959/D	A Speakerphone with Receive Idle Mode
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AN968/D	A Digital Voice/Data Telephone Set
AN970/D	Hardware and Software Interface for the MC68605 X.25 Protocol Controller
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AN1003/D	Featurephone Design, with Tone Ringer and Dialer, using the MC34118 Speakerphone IC
AN1004/D	A Handsfree Featurephone Design using MC34114 Speech Network and MC34118 Speakerphone ICs
AN1006/D	Linearize the Volume Control of the MC34118 Speakerphone
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AN1091/D	Low Skew Clock Drivers and Their System Design Considerations
AN1207/D	The MC145170 in Basic HF and VHF Oscillators
AN1401/D	Using SPICE to Analyze the Effects of Board Layout on System Skew When Designing with the MC10/100H640 Family of Clock Drivers
AN1405/D	ECL Clock Distribution Techniques
AN-HK-01/H	H 300 Baud Smart Modem with Intelligent MCU Controller
APR1/D	Digital Sine-Wave Synthesis Using the DSP56001/DSP56002
APR9/D	Full-Duplex 32-kbit/s CCITT ADPCM Speech Coding on the Motorola DSP56001
APR12/D	Twin CODEC Expansion Board for the DSP56000 Application Development System
APR14/D	Conference Bridging in the Digital Telecomm Environment Using the Motorola DSP56000
APR401/D	Twin CODEC Expansion Board for the DSP56000 Application Development System
AR519/D	Low-Skew Clock Drivers: Which Type Is Best?
BF8501/D	2x8 Key System
EB77/D	A 60 Watt, 225-400MHz Amplifier - 2N6439
EB89/D	A 1 Watt, 2.3GHz Amplifier
	nal Information relevant to Telecommunications se found in the following Motorola documents: Motorola Discretes – The Complete
BB1333/D	Solution

BR1333/D Low Skew Clock Drivers and Programmable Delay Circuits High Performance Frequency Control Products BR1334/D

Telecommunications continued

BR1413/D	Military 35102 Sleep-Mode Op Amp
BR1415/D	Military Telecom Special Functions
BR1418/D	Military Analog, Telecom and Special Functions Fact Sheet
DL136/D	Communications Device Data
DL411/D	Telecommunications Applications Manual
MC68302UM/AD	MC68302 Integrated Multiprotocol Processor User's Manual
MC68605UM/AD	MC68605 X.25 Protocol Controller User's Manual
SG46/D	RF Products Selector Guide & Cross Reference
SG96/D	Linear and Interface Integrated Circuits Selector Guide & Cross Reference
SG98/D	Linear Telecom Cross Reference
SG138/D	Military IC & Discrete Selector Guide
SG169/D	MOS Digital-Analog Integrated Circuits
SG366/D	TTL, ECL, CMOS and Special Logic Circuits Selector Guide
SGE102R1/D	CMOS System IC Selection Guide

Thyristors and Triacs

EB91/X

EB126/D

AN443/D	Direction and Speed Control for Series, Universal and Shunt
*AN527/D	Theory, Characteristics and Applications of the Programmable Unijunction Transistor
*AN916/D	Applications of the MOC3031 and MOC3041 Zero-Crossing Triac Drivers
AN964/D	Trigger Design Ideas for DIAC Replacements
AN1045/D	Series Triacs in AC High Voltage Switching Circuits
AN1048/D	RC Snubber Networks for Thyristor Power Control and Transient Suppression
AN1314/D	Automatic Line Voltage Selector
EB30/D	Sensitive Gate SCRs – Don't Forget the Gate-Cathode Resistor

Additional information relevant to Thyristors may be found in the following Motorola documents:

The Use of Inverse-Parallel SCRs

Ultra-Rapid Nickel-Cadmium Battery Charger

BR904/D	MIL-Processed Devices: Technical Data
BR923/D	Discrete & Materials Technologies Group, Reliability Audit Report
DL137/D	Thyristor Device Data
DL148/D	Discrete Military Operations Data
DL410/D	Power Applications Manual
SG268/D	Thyristors Update
SG270/D	Discrete Semiconductor Cross Reference Guide – 1992

TV and Video

AN433/D	TV On-Screen Display Using the MC68HC05T1
AN446/D	MCM2814 Gang-Programmer Using an MC68HC805B6
AN448/D	"FLOF" Teletext Using M6805 Microcontrollers
AN545A/D	Television Video IF Amplifier Using Integrated Circuits
AN829/D	Application of the MC1374 TV Modulator
AN879/D	Monomax: Application of the MC13001 Monochrome Television Integrated Circuit
AN921/X	Horizontal APC/AFC Loops
*AN932/D	Application of the MC1377 Colour Encoder
AN1019/D	Decoding Using the TDA3330, with Emphasis on Cable In/Cable Out Operation
AN1029/D	TV Transposers Band IV and V Po = 0.5W/1.0W
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AN1039/D	470-860 MHz Broadband Amplifier 5W
AN1044/D	The MC1378 – A Monolithic Composite Video Synchronizer
AN1076/D	Speeding up Horizontal Outputs
AN1080/D	External-Sync Power Supply with Universal Input Voltage Range for Monitors
AN1103/D	Using the CR3424 for High Resolution CRT Applications
AN1122/D	Running the MC44802A PLL Circuit
AN1203/D	A Software Method for Decoding the Output from the MC14497/MC3373 Combination
AN1306/D	Thermal Distortion in Video Amplifiers

Additional information relevant to TV and Video may be found in the following Motorola documents:

BR470/D	Motorola Discretes – The Complete Solution
BR924/D	Military Analog Lineup
BR1305/D	Linear Integrated Circuits: New Product Calendar
BR1418/D	Military Analog, Telecom and Special Functions Fact Sheet
BRE262/D	Motorola's Video/Graphics Peripherals
DL111/D	Bipolar Power Transistor Data
DL413/D	Radio, RF and Video Applications Manual
SG46/D	RF Products Selector Guide & Cross Reference
SG96/D	Linear and Interface Integrated Circuits Selector Guide & Cross Reference
SG140/D	SCANSWITCH Selector Guide
SG169/D	MOS Digital-Analog Integrated Circuits

Video Capture chip Set Selector Guide

SG368/D

Unijunction

*AN294/D Unijunction Transistor Timers and Oscillators

*AN527/D Theory, Characteristics and Applications of the Programmable Unijunction Transistor

Additional information relevant to Unijunction may be found in the following Motorola documents:

DL148/D Discrete Military Operations Data

SG270/D Discrete Semiconductor Cross Reference

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All Products and Application Areas

AR515/D Wafers to Surface Mount Packages in One-Fourth the Time

BR101/D Technical Literature and Information Catalog

(order a BR464/D: Technical Books in

Europe)

BR128/D Semiconductor Data 'Update' Magazine

BR128E/D	'Update' Europe
BR380/D	SPS Bar Code Label Specifications
BR392/D	Statistical Process Control
BR460/D	The European Blue Book, 1992 – Qualified Semiconductor Products
BR464/D	Technical Books (Europe version of BR101/D)
BR471/D	Motorola Semiconductor Applications Manuals
BR472/D	European Distributors
BR474/D	European Bar Code Specifications
BR518/D	Reliability & Quality Handbook
BR914/D	MEP Product Flow
BR925/D	Six Sigma Roadmap
BR1202/D	Motorola Quality System Review Guidelines
BR1306/D	CATS - Customer Analysis Tracking System

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*AN294	Unijunction Transistor Timers and Oscillators	AN449	An MC68340 to M88000 MBUS Bus Translator
AN421	Semiconductor Noise Figure Considerations	AN450	IC Design: A Statistical Approach to Electromigration
AN427	MC68HC11 EEPROM Error Correction Algorithms in C	AN451	An MC68340-based Input/Output Processor Design
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AN431	Temperature Measurement and Display Using the MC68HC05B4 and the MC14489	AN465	MC68HC05K1 & MC68HC05P3 Secure Remote Control
AN432	128K byte Addressing with the M68HC11	AN470	Bipolar Chopper Transistors and Circuits
AN432A	A Monolithic Integrated FM Stereo Decoder System	AN477	Simple A/D for MCUs Without Built-In A/D Converters
AN433	TV On-Screen Display Using the MC68HC05T1	AN484A	Basic Design of Medium Power Audio Amplifiers
AN434	Serial Bootstrap for the RAM and EEPROM1 of the MC68HC05B6		(3 to 35 Watt)
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AN441	MC68HC05E0 EPROM Emulator	AN545A	Television Video IF Amplifier Using Integrated Circuits
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*AR262	Some Silicon Solutions for MAP	AR328	Application-Specific Transistors
*AR264	Hi-Tech Encoder	AR329	Gate Change Explains HF Effects of MOSFET
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*AR267	Moto Answers Back	AR330	High Density ECL Arrays Ease System Implementation
*AR268	Motorola 68020 and Intel 80386 32-bit	AR331	Optoisolators For Switching Power Supplies
	Microprocessors: Perceptions of Performance: Executive Summary	AR332	CDA TM Array Papers
AR270	Designing a Cache for a Fast Processor	AR333	RF Modems Simplified
AR273	The 88000 Now	AR335	Ultra-Fast Rectifiers and Inductive Loads
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AR280	RISC Engine REVs VMS Applications		Performance, Density"
AR281	"The 68040 Processor: Part 1, Design and	AR340	The Low Forward Voltage Schottky
	Implementation"	AR341	"Power MOSFET, 1HP Brushless DC Motor Drive Withstands Commutation Stresses"
AR282	"The 68040 Processor: Part 2, Memory Design and Chip Verification"	AR345	Switches For High-Definition Displays
AR283	"Motorola's 68040 Boost for Mac, NeXT, and HP/Apollo"	AR346	RF Power FETs: Their Characteristics and Applications
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AR300	The Hidden Dangers of Electrostatic Discharge – ESD	AR351	Evaluating the Communications Performance of You Next Board Design
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AR312	"JEDEC Simplifies Selection of BiMOS, CMOS Gate Arrays"		Speed Logic Families
AR313	Wideband RF Power Amplifier	AR519	Low-Skew Clock Drivers: Which Type is Best?
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	System	EB128	Simple, Low-Cost Motor Controller
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EB2/A	Get 300 Watts PEP Linear Across 2 to 30MHz from this Push-Pull Amplifier	EB140	LonTalk Protocol
EB29	The Common Emitter TO-39 and Its Advantages	EB149	Optimizing LonTalk Response Time
EB30	Sensitive Gate SCE - Don't Forget the Gate Cathode	EB150	Neuron Chip RS-485 Transceiver
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	Modules	EB403	Smart Card bootstrap loader, MC68HC05SC21B
EB108	Relative Efficiencies of Power Semiconductors in a PWM DC Motorola Controller	EB404	"Memories Are Made of This" a Look at Memory
EB109	Low Cost UHF Device Gives Broadband Performance at 3.0 Watts Output	EB405	Considerations for Smart Card Applications Smart Cards: How to Deal Yourself a Winning Hand
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